

Infosafe No™ 1CH7G Issue Date : December 2020 RE-ISSUED by CHEMSUPP

Product Name **ZINC CHLORIDE**

Classified as hazardous

1. Identification

GHS Product Identifier	ZINC CHLORIDE	
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
E-mail Address	www.chemsupply.com.au	
Recommended use of the chemical and restrictions on use	Catalyst, dehydrating agent and condensing agent in organic synthesis, fireproofing and preserving food, soldering fluxes, burnishing and polishing compounds for steel, electroplating, antiseptic and deodorant preparations (up to 2% solution), textiles (mordant, carbonising agent, mercerizing, sizing and weighting compositions, resist for sulfur colours, albumin colours and para red), adhesives, dental cements, glass etching, petroleum refining, parchment, dentrifices, embalming and taxidermists' fluids, additive for use with acrylic latex paints, animal feeds, dietary supplement, medicine (astringent), antistatic, denaturant for alcohols and laboratory reagent.	
Other Names	<u>Name</u> ZINC CHLORIDE LR Zinc (II) chloride	<u>Product Code</u> ZL005
Additional Information	If this compound is used for human internal use, then it may acquire a poison schedule of S4. When used for laboratory chemical analysis, it has a poison schedule of S6.	
Other Information	ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.	

2. Hazard Identification

GHS classification of the substance/mixture	Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1 Acute Toxicity - Oral: Category 4 Acute Toxicity - Inhalation: Category 4 Skin Corrosion/Irritation: Category 1A
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H332 Harmful by inhalation. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.
Pictogram (s)	Corrosion, Exclamation mark, Environment



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Precautionary statement – Prevention
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.

Precautionary statement – Storage

Precautionary statement – Disposal
P501 Dispose of contents/container to an approved waste disposal plant/company.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Zinc Chloride	7646-85-7	100 %

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products
May liberate toxic fumes in fire including zinc/zinc oxides and hydrogen chloride gas.

Specific Methods
Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.
Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from fire area.
Large fire: Use dry chemical, CO2, foam or water spray - Do not use water jets.
Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.

Hazchem Code 2X

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Precautions in connection with Fire Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

Other Information Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Personal Precautions Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling Avoid substance contact and generation and inhalation of dust. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities Keep containers closed at all times. Store at room temperature (15 - 25 °C). Store in a dry, well-ventilated area, out of direct sunlight.

Storage Regulations Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.

Unsuitable Materials Metal equipment or containers.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Zinc Chloride	2		1		
Other Exposure Information	<p>These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p> <p>The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.</p>					
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.					
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.					
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.					
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous					

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Personal Protective Equipment	waste. Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White deliquescent crystals or powder.
Odour	Slightly pungent.
Melting Point	283 °C
Boiling Point	732 °C
Solubility in Water	Very soluble.
Solubility in Organic Solvents	Soluble in alcohol, glycerol and ether.
Specific Gravity	2.91 @ 25 °C
pH	pH 5 (10% solution)
Vapour Pressure	1 mm @ 428 °C
Flammability	Non combustible material.
Molecular Weight	136.30

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Moisture. Hygroscopic.
Incompatible Materials	Strong oxidizing agents, potassium, acids and acid fumes. Do not use metal equipment or containers.
Hazardous Decomposition Products	Chloride fumes, zinc oxide fumes, zinc/zinc oxides, hydrogen chloride gas.
Possibility of hazardous reactions	Contact with acids or acid fumes will evolve highly toxic chloride fumes. Can react violently with potassium.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 Oral - Rat - male - 1,100 mg/kg (OECD Test Guideline 401)
Ingestion	Harmful if swallowed. May cause nausea, vomiting, inflammation, and burns of mucous membranes of the mouth, pharynx, and oesophagus, and stomach, ulceration of the stomach. Symptoms include pain, metallic taste, vomiting, diarrhoea, drop in blood pressure, tachycardiovascular disorders collapse, and disturbed electrolyte balance. Risk of perforation in the oesophagus and stomach. Damage to kidneys.

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Inhalation	Harmful if inhaled, causes burns. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May cause nausea, vomiting, dizziness, conjunctivitis, irritation of the nose and throat, coughing, copious sputum, dyspnoea, chest pain, damage to the mucous membranes of the nasopharynx and respiratory tract, fever, cyanosis, tachypnoea, pulmonary edema, bronchopneumonia, pulmonary fibrosis, lung damage and death.
Skin	Causes burns. May be harmful if absorbed through the skin. Avoid contact with skin.
Eye	Causes burns. Major exposure may lead to inflammation of the cornea. Avoid contact with eyes.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Chronic inhalation may lead to asthma. Chronic ingestion may cause disordered digestion and constipation.
Serious eye damage/irritation	H314 Causes severe skin burns and eye damage.
Mutagenicity	Not classified based on available information.
Skin corrosion/irritation	Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage.
Other Information	Inhalation of dust or fumes of zinc salts or metal cause 'metal fume fever', which is characterised by chills, fever, tightness of the chest and coughing.

12. Ecological information

Ecotoxicity	Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. Hazard for drinking water supplies.
Persistence and degradability	Methods for the determination of biodegradability are not applicable to inorganic substances.
Environmental Protection	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.169 mg/l - 96 h
Acute Toxicity - Daphnia	static test EC50 - Ceriodaphnia dubia (water flea) - 0.67 mg/l - 48 h (OECD Test Guideline 202)

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
U.N. Number	2331
UN proper shipping name	ZINC CHLORIDE, ANHYDROUS

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Transport hazard class(es)	8
Hazchem Code	2X
Packing Group	III
EPG Number	8A1
IERG Number	37

15. Regulatory information

Regulatory Information	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	S6

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
Empirical Formula & Structural Formula	ZnCl ₂ ...End Of MSDS...

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