



Infosafe No™	1CHHG	Issue Date : November 2019	RE-ISSUED by CHEMSUPP
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Product Name : **ZINC ACETATE Dihydrate**

Classified as hazardous

1. Identification

GHS Product Identifier	ZINC ACETATE Dihydrate	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Preserving wood, mordant in dyeing, ceramic glazes, reagent for testing albumin, tannin, urobilin, phosphate and blood, dietary supplement, feed additive, medicine (astringent), zinc chromate, cross linking agent for polymers, analytical reagent and laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>
	ZINC ACETATE Dihydrate AR	ZA001
	ZINC ACETATE Dihydrate LR	ZL001
Additional Information	Zinc acetate, Zinc diacetate, dihydrate, Zinc diacitate	
Other 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 no poison schedule.	
	Chem-Supply 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 Chem-Supply 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 Chem-Supply 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 - Long-Term Hazard: Category 2 Eye Damage/Irritation: Category 1 Acute Toxicity - Oral: Category 4
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.
Pictogram (s)	Corrosion, Exclamation mark, Environment



Precautionary statement – Prevention	P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P391 Collect spillage.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.



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3. Composition/information on ingredients

Chemical Solid

Characterization**Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Zinc acetate dihydrate	5970-45-6	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. Get medical aid if cough or other symptoms appear.

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 Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Obtain medical attention immediately.

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.

Most important symptoms/effects, acute and delayed The following applies to zinc compounds in general: only slightly absorbable via the gastrointestinal tract. Astringent effect on mucous membranes. Metal-fume fever after inhalation of large quantities.

Other Information For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products May liberate toxic fumes in fire (carbon oxides).

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, water spray or foam.
Large fire: Use water spray, fog or foam.
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Specific hazards arising from the chemical Material does not burn. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.

Hazchem Code 2Z

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions Avoid dust formation. Avoid breathing dust. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

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.

Clean-up Methods - Large Spillages Seek expert advice on handling and disposal.

Environmental Precautions Prevent contamination of soil and water.

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material.



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Conditions for safe storage, including any incompatibilities Keep containers closed at all times. Store in a cool, dry, well-ventilated area, out of direct sunlight. Store away from incompatible substances. Store protected from solvents.

8. Exposure controls/personal protection

Other Exposure Information No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m³. All atmospheric contamination should be kept to as low a level as is workable.

Appropriate engineering controls In industrial situations 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. These methods should be used in preference to personal protective equipment.

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 waste.

Personal Protective Equipment 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 to colourless crystals.

Odour Weak acetic acid odour.

Melting Point 237 °C. Losses water of hydration above 100 °C.

Solubility in Water Soluble.

Solubility in Organic Solvents Soluble in alcohol.

Specific Gravity 1.735

pH pH 6 - 7 (50 g/L, H₂O, 20 °C)

Flammability Non combustible material.

Molecular Weight 219.51

Relative density 1.840 g/cm³

Other Information Taste: Astringent.

10. Stability and reactivity

Chemical Stability Stable under normal use conditons.

Conditions to Avoid Heat, flames, ignition sources and incompatibles.



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Incompatible Materials	Acacia, alkalis and their carbonates, oxalates, phosphates, sulfides, strong oxidizing agents, lime water, vegetable astringent decoctions and infusions, zinc salts.
Hazardous Decomposition Products	Zinc oxide fumes, carbon monoxide, carbon dioxide.
Hazardous Polymerization	Will not occur.

11. Toxicological Information**Acute Toxicity - Oral** LD50 (rat): 794 mg/kg.

Ingestion	May be harmful if swallowed. May cause gastrointestinal irritation, with nausea, vomiting and diarrhoea. Uptake of large quantities, may lead to metal-fume fever with symptoms similar to inhalation as well as decrease in blood pressure, cardiovascular disorders.
Inhalation	Inhalation of dust may result in respiratory irritation, coughing and dyspnoea. Inhalation of fumes may cause metal-fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain, and increased white blood cell count. Systemic effects include pulmonary oedema.
Skin	Contact with skin may cause irritation, redness, itching, pain and possible burns, especially if skin is wet or moist.
Eye	Contact with eyes may cause severe irritation and possible eye burns. May cause soreness.
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.
Aspiration Hazard	Not classified based on available information.
Mutagenicity	Not classified based on available information.

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	Readily biodegradable. Methods for the determination of biodegradability are not applicable to inorganic substances.
Other Precautions	Contamination of ground water involves risks for drinking water catchment.
Environmental Protection	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic organisms. Avoid contaminating waterways.
Other Information	Further ecologic data: The following applies to soluble zinc compounds in general: Inorganic zinc salts have a bactericidal effect. From > 10 mg Zn/l on, the bacteriological self-purification of water is inhibited or suppressed. Toxic for water organisms. Lethal for fish from 0.1 mg/l in soft water.

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	Class 9 Miscellaneous dangerous goods shall not be loaded in a vehicle with: - Class 1 Explosives - Class 5. 1 Oxidizing agents (when Class 9 substance capable of igniting and burning) - Class 5. 2 Organic peroxides (when Cl. 9 capable of igniting/burning).
U.N. Number	3077



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UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	9
Hazchem Code	2Z
Packing Group	III
EPG Number	47
IERG Number	47
UN Number (Road Transport)	3077
Other Information	SPECIAL SPECIAL PROVISION AU01 States: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 not subject to this Code when transported by road or rail; (a) packagings; (b) IBCs; or (c) any other receptacle not exceeding 500 kg(L).

15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled
Hazard Category	Harmful,Irritant,Dangerous for the environment

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. 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. Chem-Supply 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.
Contact Person/Point	
Empirical Formula & Structural Formula	Zn(CH ₃ COO) ₂ .2H ₂ O ...End Of MSDS...

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