



Infosafe No™	1CH7E	Issue Date : December 2015	RE-ISSUED by CHEMSUPP
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Product Name : **ZINC (FOIL, GRANULES, SHOT and SHEET)**

Not classified as hazardous

1. Identification

GHS Product Identifier ZINC (FOIL, GRANULES, SHOT and SHEET)

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

Recommended use of the chemical and restrictions on use Laboratory reagent, chemical production, fungicides, cable wrappings, auto parts, engravers' plates, electroplating and electrical fuses.

Other Names**Name****Product Code**

ZINC Sheet TG	ZT006
ZINC Granules TG	ZT007
ZINC Granules LR	ZL007
ZINC Granules TG Particle size less than 10mm	ZT035

Other Information

EMERGENCY CONTACT NUMBER: +61 08 8440 2000
Business hours: 8:30am to 5:00pm, Monday to Friday.

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 Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia.

Pictogram (s) Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
No symbol

3. Composition/information on ingredients**Chemical Characterization** Solid**Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Zinc	7440-66-6	100 %	N	R50/53

4. First-aid measures

Inhalation Not applicable.

Ingestion Rinse mouth thoroughly with water immediately. Give plenty of water to drink. If a large object has been swallowed, seek medical assistance.

Skin Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.

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 include Zinc/zinc oxides, zinc oxide fumes.



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Specific Methods	Do NOT use chlorinated hydrocarbon type extinguishers. Use measures suitable for extinguishing surrounding fire.
Specific hazards arising from the chemical	Material does not burn. Slight fire hazard if in the form of dust rather than granules or foil. Fire or heat will produce irritating, poisonous and/or corrosive gases.
Precautions in connection with Fire	Use suitable protective equipment for surrounding fire.

6. Accidental release measures**Spills & Disposal** Wrap so that no sharp edges are exposed and dispose to normal waste.**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)**7. Handling and storage****Conditions for safe storage, including any incompatibilities** Keep container tightly closed and dry**8. Exposure controls/personal protection**

Appropriate engineering controls	Natural ventilation should be adequate under normal conditions of use. When there is large-scale use of this material (eg. bagging operation), engineering control methods to reduce exposures may be necessary. Local exhaust ventilation is recommended.
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	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
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 metal with blueish-gray lustre.
Odour	Odourless.
Melting Point	419 °C
Boiling Point	907 °C
Solubility in Water	Insoluble.
Specific Gravity	7.14
Vapour Pressure	1 mm @ 487 °C
Flammability	Non combustible material.
Molecular Weight	65.38
Other Information	Strongly electropositive. Malleable at 100 - 150 °C.

10. Stability and reactivity



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Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Zinc powder: The presence of moisture can result in spontaneous combustion. Danger of dust explosion.
Incompatible Materials	Strong acids, strong alkalis, alkali hydroxides, halogen-halogen compounds, water, halogens, sulfur, hydrazine and derivatives, ammonium compounds, chlorides, chlorates, oxides, nitrates, fluorine, carbon disulfide and various metals.
Hazardous Decomposition Products	Zinc/zinc oxides, zinc oxide fumes.
Possibility of hazardous reactions	Metals in contact with acids give off hydrogen gas which may explode in a fire. Spontaneous chemical reactions reported with Ammonium Nitrate, Barium Oxide, Barium Nitrate, Cadmium, Carbon disulphide, Chlorates, Chloride, Chromium Trioxide, Chloro trifluoride, Manganese chloride, Nitric acid, Performic acid, Potassium chlorate, Potassium peroxide, Sodium chlorate, Sodium peroxide, Sulfur, Tellurium, Water, Fluorine, Hydrazine mono nitrate, Hydroxylamine, Lead trinitrate and the following mixtures: Ethyl acetoacetate with tribromoneopentyl alcohol, Magnesium and barium nitrate with barium oxide.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May be harmful if swallowed. After absorption may experience fever, muscular symptoms, pain, cardiovascular disorders, nausea, and vomiting.
Inhalation	The foil or granules should not be harmful unless they are converted to dust or powder or unless they are reacted to form metallic salts and heated to produce fumes upon decomposition. Inhalation of zinc dusts or fume may cause metal fume fever, which is characterised by irritation, chills, fever, tightness of chest and coughing.
Skin	May be harmful if absorbed through the skin. May cause skin irritation.
Eye	May cause eye irritation.
Carcinogenicity	Not listed in the IARC Monographs.
Mutagenicity	No evidence of mutagenic effects.
Skin corrosion/irritation	Human: 0.3 mg, 3D, I, Remarks: Mild irritation effect.

12. Ecological information

Ecotoxicity	May cause long-term adverse effects in the aquatic environment. 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.
Acute Toxicity - Fish	The following applies to soluble zinc compounds in general: Inorganic zinc salts have a bactericidal effect. Lethal for fish from 0.1 mg/l in soft water. LC50 (L.idus) 21 mg/l (ZnCl ₂)
Acute Toxicity - Daphnia	The following applies to soluble zinc compounds in general: Inorganic zinc salts have a bactericidal effect. Zinc ions (Daphnia magna): from 0.3 mg/l (ZnCl ₂)

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	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	Not Scheduled



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16. Other Information**Literature
References**

'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015.
 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 Substances 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)]'.

**Contact
Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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**Empirical Formula & Zn
Structural Formula**

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