Safety Data Sheet ZINC (FOIL, GRANULES, SHOT and SHEET)

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SECTION 1: Identification

GHS Product identifier

Product name	ZINC (FOIL, GRANULES, SHOT and SHEET)

Other means of identification

Product	Product Code
ZINC Sheet TG	ZT006
ZINC Granules TG	ZT007
ZINC Granules LR	ZL007
ZINC Granules TG	ZT035

Recommended use of the chemical and restrictions on use

Laboratory reagent, chemical production, fungicides, cable wrappings, auto parts, engravers' plates, electroplating and electrical fuses.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight	65.38

Component	Identification	Weight %
Zinc (foil rod, slug)	CAS no.: 7440-66-6 EC no.: 231-175-3 Index no.: 030-001-01-9	100 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	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.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.
If swallowed	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.

Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary
For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Do NOT use chlorinated hydrocarbon type extinguishers.
Use measures suitable for extinguishing surrounding fire.

Specific hazards arising from the chemical
Hazards from Combustion Products: May liberate toxic fumes in fire include zinc oxides.

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.

Special protective actions for fire-fighters
Use suitable protective equipment for surrounding fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

Methods and materials for containment and cleaning up
Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling
Use personal protective equipment as required. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls
Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face 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.

Skin protection
Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection
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 and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid

Appearance	
Color	White metal with blueish-gray lustre.
Odor	Odourless.
Odor threshold	
Melting point/freezing point	419 °C
Boiling point or initial boiling point and boiling range	907 °C
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Insoluble.
Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	1 mm @ 487 °C
Density and/or relative density	Specific Gravity: 7.14
Relative vapor density	No data available.
Particle characteristics	No data available.

Further safety characteristics (supplemental)
Strongly electropositive. Malleable at 100 - 150 °C.

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of storage and handling.

Chemical stability
Stable under recommended storage conditions.

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 cloride, 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.

Conditions to avoid
Zinc powder: The presence of moisture can result in spontaneous combustion. Danger of dust explosion.

Incompatible materials
Strong acids, strong alkalies, alkali hydroxides, halogen-halogen compounds, water, halogens, sulfur, hydrazine and derivatives, ammonoium compounds, chlorides, chlorates, oxides, nitrates, fluorine, carbon disulfide and various metals.

Hazardous decomposition products
Zinc/zinc oxides, zince oxide fumes.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Ingestion: After absorption may experience fever, muscular sysmptoms, 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 metalic 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 corrosion/irritation
May cause skin irritation.

Serious eye damage/irritation
May cause eye irritation.

Respiratory or skin sensitization
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.

Specific target organ toxicity (STOT) - single exposure
Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure
Not classified based on available information.

Aspiration hazard
Not classified based on available information.

SECTION 12: Ecological information

Toxicity
No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP
Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer
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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 fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)