

# SAFETY DATA SHEET

## Section 1. Identification of the material and supplier

|   |  |
|---|--|
| <b>Product Identifier:</b>                                      | LPP_C-03-10  |
| <b>Other means of identification:</b>                           | Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S<br>(Contains zinc powder stabilized)<br><br>Product code: LPP_C-03-10 |
| <b>Recommended use of the chemical and restrictions on use:</b> | Intermediate / additional components / Various chemical industry use application / Metal coatings.   |
| <b>Details of manufacturer or importer:</b>                     | Titomic Limited<br>Ground Floor, 365 Ferntree Gully Road,<br>Mount Waverley, Victoria 3149, Australia  |
| <b>Telephone Number:</b>  | +61 3 9573 3188  |
| <b>Emergency Telephone number:</b>                              | 24 hours - +61 1800 951 288  |

## Section 2: Hazards Identification

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; **DANGEROUS GOODS.**

Based on available information, classified as hazardous according to Safe Work Australia;  
**HAZARDOUS CHEMICAL.**

Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

**Signal Word:** Warning

**Hazard Statements:**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

**Prevention**

P273 Avoid release to the environment.

**Response**

P391 Collect spillage

## Storage

P403 + P235 Store in a well-ventilated place. Keep container tightly closed.

Keep material dry.

## Other hazards

None

## Hazard Symbols



## Section 3. Composition and information on ingredients

| Chemical Identity                 | Synonym | CAS Number | Proportions (%w/w) |
|-----------------------------------|---------|------------|--------------------|
| Zinc powder ( <i>stabilized</i> ) | -       | 7440-66-6  | 30                 |
| Copper                            | -       | 7440-50-8  | 70                 |

## Section 4. First aid measures

In case of poisoning contact a doctor or Poisons Information Centre on 131 126, New Zealand 0800 764 766

Have the product label or SDS with you when calling or going for treatment.

**Ingestion:** If swallowed, drink water. Consult a doctor if feeling unwell.

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Consult doctor if eye irritation persists.

**Skin Contact:** Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If irritation persists, call a physician. Wash contaminated clothing before re-use.

**Inhalation:** After inhalation - fresh air. Consult doctor if feeling unwell.

**Symptoms caused by exposure:** Symptoms include inflammation of the mouth, throat and oesophagus, gastrointestinal discomfort and dyspnoea.

**Medical attention and special treatment:** No data available

## Section 5. Firefighting measures

### Suitable extinguishing equipment:

Sand and other special powders for metal fires

### Specific Hazards arising from the chemical:

Zinc/zinc oxides

Not combustible

Fine dust may produce combustible dust atmospheres.

Intense fire may liberate hazardous vapours

**Special protective equipment and precautions for firefighters:**

In the event of fire, wear self-contained breathing apparatus

**Hazchem Code: 2x**

## Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions:**

Do not let product enter drains.

**Methods and materials for containment and cleaning up:**

Cover drains. Collect spillage. Observe possible material restrictions (see sections 7 and 10). Collect any dry spillage. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## Section 7. Handling and storage

**Precautions for safe handling:**

For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities:**

Keep containers tightly closed and in a dry location

## Section 8. Exposure controls and personal protection

| Component                   | TWA 8h               | TWA 5 days    | STEL          | Peak limitations (if available) |
|-----------------------------|----------------------|---------------|---------------|---------------------------------|
| Zinc<br>(Dust non-specific) | 10 mg/m <sup>3</sup> | Not available | Not available | Not available                   |
| Copper                      | Not available        | Not available | Not available | Not available                   |

No exposure standard assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s) has been shown in table.

*Note: As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.*

*TWA - The time-weighted average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.*

*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 clear defining points between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.*

**Biological monitoring:**

No biological limits allocated

**Control banding:**

No data available

**Engineering controls:**

Change contaminated clothing. Wash hands after working with substance.

**Individual protection measures, for example personal protective equipment (PPE):**

**Eye and face protection**

Wear safety glasses when handling this material

**Skin protection**

Avoid skin contact by wearing suitable work clothing

**Respiratory protection**

If work areas where dust generation is present where suitable respiratory protection

**Thermal hazards**

Not combustible

Other information.

Reference standards for (PPE).

Respiratory protection: AS/NZS 1715 and AS/NZS 1716.

Gloves: AS/NZS 2161.1.

Eye protection: AS/NZS 1336 and AS/NZS 1337

## **Section 9. Physical and chemical properties**

|  |                              |
|--|------------------------------|
| <b>Appearance</b>                                    | Silver grey odourless powder |
| <b>Auto-ignition temperature:</b>                    | Data is not available        |
| <b>Decomposition temperature:</b>                    | Data is not available        |
| <b>Evaporation rate:</b>                             | Data is not available        |
| <b>Flammability (solid, gas):</b>                    | Data is not available        |
| <b>Flash point:</b>                                  | Data is not available        |
| <b>Initial boiling point and boiling range:</b>      | Data is not available        |
| <b>Melting point/freezing point</b>                  | Data is not available        |
| <b>Odour:</b>  | Odourless                    |
| <b>Odour threshold:</b>                              | Data is not available        |
| <b>Partition coefficient: n-octanol/water:</b>       | Data is not available        |
| <b>pH:</b>   | Data is not available        |
| <b>Relative density:</b>                             | Data is not available        |
| <b>Solubility:</b>                                   | Partly miscible in water     |
| <b>Upper/lower flammability or explosive limits:</b> | Data is not available        |
| <b>Vapour density:</b>                               | Data is not available        |
| <b>Vapour pressure:</b>                              | Data is not available        |
| <b>Viscosity:</b>                                    | Solid                        |

### **Other physical/chemical parameters**

|   |                                  |
|---|----------------------------------|
| <b>Biodurability or biopersistence:</b>                           | Data is not available            |
| <b>Crystallinity:</b>   | Data is not available            |
| <b>Degree of aggregation or agglomeration and dispersibility:</b> | Data is not available            |
| <b>Dustiness:</b>   | Data is not available            |
| <b>Particle size (average and range):</b>                         | Data is not available            |
| <b>Redox potential:</b>   | Data is not available            |
| <b>Release of invisible flammable vapours and gases:</b>          | Data is not available            |
| <b>Saturated vapour concentration:</b>                            | (Include reference temperatures) |
| <b>Shape and aspect ratio:</b>                                    | Data is not available            |
| <b>Size distribution:</b>   | Data is not available            |
| <b>Specific heat value:</b>                                       | Data is not available            |
| <b>Surface area:</b>  | Data is not available            |
| <b>Surface coating or chemistry:</b>                              | Data is not available            |

## **Section 10. Stability and reactivity**

|  |   |
|--|---|
| <b>Reactivity:</b>                         | Non-reactive in dry storage conditions                                |
| <b>Chemical stability:</b>                 | Data is not available   |
| <b>Possibility of hazardous reactions:</b> | Will react with acids   |
| <b>Conditions to avoid:</b>                | Avoid storage in wet environments                                     |
| <b>Incompatible materials:</b>             | Acids   |
| <b>Hazardous decomposition products:</b>   | Material involve intense heat will evolve toxic and irritant vapours. |

## **Section 11. Toxicological information**

### **Information on possible routes of exposure:**

Relevant values for classification

| Chemical                    | LD <sub>50</sub> (Oral)              | LC <sub>50</sub> (Inhalation)       | LD <sub>50</sub> (Dermal) |
|-----------------------------|--------------------------------------|-------------------------------------|---------------------------|
| Zinc<br>(powder stabilized) | >2000 mg/kg (Rat)<br>(OECD Test 401) | >5.41 mg/l (4h) Rat<br>(OECD, 2004) | No data available         |
| Copper                      | Data is not available                | Data is not available               | Data is not available     |

### **Acute Health Effects**

#### **Inhalation:**

No data available

#### **Skin:**

Causes skin irritation, prolonged contact can cause dermatitis

#### **Eye:**

Causes eye irritation

#### **Ingestion:**

Ingestion of the material may be damaging to the health of the individual

**Skin Corrosion / Irritation:**

Causes skin irritation and material should not be allowed to enter the blood body stream via open skin cuts. Constant skin exposure may cause mild inflammation and repeated exposure can cause dermatitis.

**Serious Eye Damage / Irritation:**

Material is not known to be an eye irritant. Direct eye contact should be avoided as symptoms such as discomfort characterised by tearing or conjunctival redness (similar to windburn). Slight abrasive damage may also result.

**Respiratory or Skin Sensitisation:**

Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:**

Based on classification principles, the classification criteria are not met.

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

May cause respiratory irritation.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:**

Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:**

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure

**Existing Conditions Aggravated by Exposure:**

Pre-existing allergies, eye, skin and respiratory disorders.

**Early onset of symptoms related to exposure:**

No data available

**Delayed health effects from exposure:**

No data available

**Exposure levels and health effects:**

No data available

**Interactive effects:**

Health effects from exposure can be worsened by drinking alcohol, taking medication or smoking. Pre-existing medical conditions such as asthma, high blood pressure or a predisposition to allergic reactions may increase risk.

**Other information:**

No data available

## Section 12. Ecological Information

### Ecotoxicity:

| Component                  | Toxicity to fish:   | Toxicity to daphnia and other aquatic invertebrates:  | Toxicity to bacteria:  |
|----------------------------|---|---|--|
| Zinc (granules stabilised) | Moderately toxic to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC50 = 8.3 mg/l , 96 h | Slightly toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea), EC50 = 6 mg/l , 24 h | static test NOEC - <i>Pseudokirchneriella subcapitata</i> (green algae) - 0.05 mg/l - 3 d (OECD Test Guideline 201)<br>static test NOEC - activated sludge - 0.1 mg/l - 4 h (ISO 9509) Remarks: (in analogy to similar products) |

**Persistence and degradability:** The methods for determining the biological degradability are not applicable to inorganic substances

**Bioaccumulative potential:** This substance is not considered to be persistent, bioaccumulating and toxic (PBT)

**Mobility in soil:** No data available

**Other adverse effects:** No information available (environmental fate, ozone depletion, photochemical ozone creation potential, endocrine-disruption potential and global warming potential.)

## Section 13. Disposal consideration

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

### Special Precautions for Landfill or incineration:

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional national and international Regulations.

## Section 14. Transport Information

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail. (ADG Code).

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



|                               | LAND TRANSPORT<br>(ADG)   | SEA TRANSPORT<br>(IMDG / IMO)                                     | AIR TRANSPORT<br>(IATA / ICAO)                                    |
|-------------------------------|---|---|---|
| <b>UN Number</b>              | 3077  | 3077  | 3077  |
| <b>Proper Shipping Name</b>   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Contains zinc) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Contains zinc) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Contains zinc) |
| <b>Transport hazard Class</b> | 9   | 9   | 9   |
| <b>Subsidiary Risk (s)</b>    | -   | -   | -   |
| <b>Packing Group number</b>   | III   | III   | III   |

**Marine pollutant:** Yes  
(IMDG)

**Emergency Response Guide No:** 171

**Special precautions for user:** Warning: Miscellaneous dangerous substances and articles

**Hazchem Code:** 2X  
(ADG)

**Additional information:**

Prevent by any means available, spillage from entering drains and water course

## Section 15. Regulatory information

This material is not subject to the following international agreements:

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL).

**This material/constituent(s) is covered by the following requirements:**

- the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (Cwth) (as amended). **If so, list the relevant Poisons Schedule number.** A poison schedule number has not been allocated to this product
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).
- All components of this product are listed on or exempt from the European Inventory of Existing Chemical Substances (EINECS)

### Source of data

This SDS has been prepared in accordance with the Safe Work Australia Preparation of safety data sheets for hazardous chemicals Code of Practice, prepared under the Work Health and Safety Act and Work Health and Safety Regulations.

Code of Practice: Labelling of workplace hazardous chemicals  
'Standard for the Uniform Scheduling of Medicines and Poisons

### *Hazard Classification*

Australian Inventory of Chemical Substances (AICS) (NICNAS)

Chemical Assessment Reports (NICNAS)

Workplace Exposure Standards for Airborne Contaminants

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

(United Nations) Global Portal to Information on Chemical Substances (OECD).

*OECD means the Organisation for Economic Cooperation and Development.*

Hazardous Chemical Information System

European Chemicals Agency (ECHA)

### *Other references*

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IARC: International Agency for Research on Cancer.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.

Australian Emergency Response Guidebook

## Section 16. Other Information

**Date of preparation:** 7 April 2024

Reason for issue: Revised & format update

**Prepared by:** ChemVit Consulting Pty Ltd. [www.chemvit.com.au](http://www.chemvit.com.au)

### Key abbreviations or acronyms used

|   |  |
|---|--|
| <p>&lt; Less Than.<br/>&gt; Greater Than.<br/>AICS Australian Inventory of Chemical Substances.<br/>atm Atmosphere.<br/>CAS Chemical Abstracts Service (Registry Number).<br/>cm<sup>2</sup> Square Centimetres.<br/>deg C (°C) Degrees Celsius.<br/>CNS Central Nervous System<br/>EC No European Community number.<br/>g Grams g/cm<sup>3</sup> Grams per Cubic Centimetre.<br/>g/l Grams per Litre.<br/>IDLH Immediately Dangerous to Life and Health.<br/>LC50 LC stands for lethal concentration.<br/>LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period, usually 1 or 4 hours.<br/>LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.</p> | <p>mg/m<sup>3</sup> Milligrams per Cubic Metre<br/>NIOSH National Institute for Occupational Safety and Health.<br/>NOHSC National Occupational Health and Safety Commission.<br/>OECD Organisation for Economic Co-operation and Development.<br/>ppb Parts per Billion.<br/>ppm Parts per Million.<br/>psi Pounds per Square Inch.<br/>REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals.<br/>SWA Safe Work Australia.<br/>STEL Short Term Exposure Limit.<br/>TLV Threshold Limit Value.<br/>TWA Time Weighted Average.<br/>UN United Nations.</p> |
|---|--|

### Disclaimer

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**END OF SDS**