# Zinc-Mo +

Revision date 23-02-2024

## 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: Zinc-Mo+

**Recommended Use:** Agricultural Micronutrient.

Supplier: Metagen Australia, 108 Chadwick Rd, Gatton, 4343,

Qld, Australia

Emergency Phone No.: Chemcall 1800-127406

Metagen 1800 229 994

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### HAZARDS IDENTIFICATION

Poisons Schedule: No data available

**Hazard Classification:** Hazardous according to the criteria of the Globally Harmonised System of

Classification and Labelling of Chemicals (GHS)

Hazard Categories: Zinc-Mo +

Acute Toxicity (oral) – Category 4. Serious Eye damage/irritation – category 2B. Hazard To The Aquatic Environment – Category 1. Long-term Hazard To The Aquatic Environment - Category 1. Specific Target Organ Toxicity (single exposure) – Category 3.

Signal Word: Warning

Hazard Statements H315 + H320 Causes skin and eye irritation

**Precautionary Statements Prevention** P280 Wear protective gloves **Response** P302 + P352 If on skin: wash with plenty of soap and water

P312 Call a poison center or doctor if you feel unwell

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Storage

P403 + P233 Store in a well ventilated place. Keep container tightly closed

National Transport Commission (Australia) Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity: Zinc-Mo+

Formula: Major ingredients: Na2MoO4.2H2O, ZnSO4.7H2O,

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### 4. FIRST AID MEASURES

**Swallowed** Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Never give anything by mouth to an unconscious person. Seek immediate medical assistance.

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. In all cases of eye contamination, its is a sensible precaution to seek medical advice.

**Skin Contact:** Immediately remove all contaminated clothing and shoes.

Flush skin and hair with running water (and soap if available). Seek immediate medical advice **Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

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

Medical Conditions Aggravated by Exposure:

### 5. FIRE-FIGHTING MEASURES

**General Measures:** Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

Flammability Conditions: Product is a non-flammable liquid

Fire and Explosion Hazard: Non-combustible material

Hazardous Products of Combustion: Decomposes on heating emitting toxic fumes, including those

of oxides of Zinc, oxides of sulfur, Metal oxide fume.

**Special Fire Fighting Instructions:** Do NOT allow fire fighting water to reach waterways, drains or

sewers. Store fire fighting water for treatment.

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**Personal Protective Equipment:** Fire fighters should wear a positive-pressure selfcontained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Flash Point: No Data Available
Lower Explosion Limit: No Data Available

**Upper Explosion Limit:** No Data Available **Auto Ignition Temperature:** No Data

Available Hazchem Code No: Data Available

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### 6. ACCIDENTAL RELEASE MEASURES

**General Response Procedure:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours/dust. Collect and seal in properly labelled containers or drums for disposal. Keep unprotected persons away. Ensure adequate ventilation.

**Clean Up Procedures:** Contain and clean up spills with an industrial wet vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste.

**Containment:** Stop leak if safe to do so. Isolate the danger area.

Environmental Precautionary Measures: Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

**Evacuation Criteria:** Evacuate all unnecessary personnel.

Personal Precautionary Measures: Personnel involved in the clean up should wear full protective

clothing as listed in section 8.

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## 7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact. Ensure good ventilation at the workplace. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Check regularly for spills.

Container: Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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100 feet per minute.

**Exposure Limits:** No Data Available

Biological Limits: No information available on biological limit values for this product.

**Engineering Measures:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least

Personal Protection Equipment: EYES: Safety glasses with side shields (AS1336/1337). HANDS: Wear impervious gloves. Check protective gloves prior to each use for their proper condition (AS2161). CLOTHING: Long-sleeved protective clothing, overalls, and safety footwear (AS3765/2210) Work Hygienic Practices: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Appearance: mildly viscous, brown liquid.

Odour: A slight mild odour.

pH: 3.5

Vapour Pressure: No Data Available

Relative Vapour Density: No Data Available

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### 10. STABILITY AND REACTIVITY

Chemical stability: Stable with moderately low pH

Conditions to avoid: High pH conditions

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Incompatible materials: Strong oxidizers and alkalis

Hazardous decomposition: Decomposes on heating emitting toxic fumes, including those of oxides of Zinc, oxides of sulfur, Metal oxide fumes, Carbon dioxide, carbon monoxide, and other undetermined by-products of organic combustion.

Hazardous reactions: None expected

## 11. TOXICOLOGICAL INFORMATION

**General Information:** Oral LD50 Rat: 4000mg/Kg

Accute toxicity: Harmful if swallowed: Ingestion can result in nausea, vomiting, diarrhea, and gastrointestinal irritation.

Skin corrosion/irritation: Contact with skin may result in irritation.

Eye damage/irritation: causes serious eye damage. A severe eye irritant; Contamination of eyes can result in permanent injury.

Respiratory/Skin sensitization: Not a skin sensitizer

Germ cell mutagenicity: Not anticipated to be genotoxic. Carcinogenicity: No Information available

Reproductive toxicity: While fertility toxicity has been observed at very high doses, the levels at which this occurs are unlikely to result from industrial use.

STOT (single exposure): May cause respiratory irritation, coughing, shortness of breath.

STOT (repeat exposure): May cause adverse effects on bone marrow and blood forming systems, eyes, respiratory systems, kidneys.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic organisms with long lasting effects

Mobility: No Data Available

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Environmental Fate: Do NOT let product reach waterways, drains and sewers

Bioaccumulation Potential: No Data Available
Environmental Impact No Data Available

### 13. DISPOSAL CONSIDERATIONS

**General Information:** Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility

**Special Precautions for Land Fill**Contaminated packaging: Containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product. Do not reuse container.

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### 14. TRANSPORT INFORMATION

Land Transport (Australia): ADG
Proper Shipping Name: Zinc-Mo+

Class: No Data Available No

Subsidiary Risk(s): Data Available

UN Number: No Data Available

Hazchem: No Data Available

Pack Group:

Special Provisions No Data Available

Comments Non-Dangerous goods: Not regulated for

LAND transport.

No Data Available

#### 15.REGULATORY INFORMATION

Not regulated, not classified as hazardous. Meets Australian Quarantine Inspection Service requirements for importation safety.

### **16.OTHER INFORMATION**

This SDS summarises the health and safety hazard information of the product to the best of our knowledge and how to safely handle and use the product in the workplace. Users should read this SDS and always consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

Information contained in this document or information as otherwise supplied to users is believed to be accurate, but it is for the users to satisfy themselves of the suitability of the product. Metagen Australia Pty Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Metagen Australia Pty Ltd accepts no liability for loss

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