



AUSTASIA ANIMAL PRODUCTS Pty Ltd

ABN: 86 083 458 566

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Revision Date:	April, 2017		
Product Name:	ZINMET® 100		
Other Names:	Zinc Methionine		
Uses:	A liquid organic trace mineral used as a feed supplement in the livestock Industry.		
Contact Information:	Organisation	Location	Telephone
	Austasia Animal Products Pty Ltd	29 Wongajong Road Forbes, NSW 2871	+61 2 6851 1747
	Poison Information Centre	Westmead NSW Australia	131126
	Chemcall 24hr Emergency Number	Australia New Zealand	1800-127406 0800-243622
	National Poisons Centre	New Zealand	0800-764766

SECTION 2. HAZARDS IDENTIFICATION

Hazard:	Not hazardous according to criteria of NOHSC/ASCC.
Risk Phrases:	No data available.
Safety Phrases:	No data available.
ERMA New Zealand Approval Code:	No data available.
HSNO Hazard Classification:	This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO controls assigned to this substance. The ERMA Web Site should be consulted for a full list of trigger controls and cited regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportions (%)
Zinc Methionine Complex (10%)	N/A	≤50%
Water	[7732-18-5]	≤50%

SECTION 4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.	
Swallowed:	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If symptoms develop, seek medical attention.
Eye:	Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. In all cases of eye contamination, it is a sensible precaution to seek medical advice.

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Skin:	Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation occurs, seek medical attention.
Inhaled:	Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Advice to Doctor:	Treat symptomatically based on judgment of doctor and individual reactions of patient.
Aggravated medical conditions caused by exposure:	No information available on medical conditions aggravated by exposure to this product. NOTE: This product contains no artificial additives or preservatives and can be used by animals, plants, and/or micro-organisms.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media:	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions. These may include water, carbon dioxide, or dry chemical foam.
Hazards from Combustion Products:	Non-flammable, non-explosive. Avoid production of extremely dusty air in areas of local burning or electrical sparking. Incompatible with acids. Hazardous decomposition products are unknown.
Special Protective Precautions and Equipment for Fire Fighters:	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). 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. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Flammability Conditions:	Product is a non-flammable liquid.
Hazchem Code:	N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Avoid accidents, clean up immediately. Slippery when wet. Personnel involved in the clean up should wear full protective clothing as listed in section 8. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment. Avoid loose product on floor in damp areas, as product may become slippery with the addition of water.
Methods and Materials for Containment and Clean Up:	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labeled container and dispose of promptly. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

SECTION 7. HANDLING & STORAGE

Precautions for Safe Handling:	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. Avoid contact with water.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect

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(Including Any Incompatibles):	against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight, water, moisture, high humidity. Store in dark area. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container Type:	Store in original packaging as approved by manufacturer.

SECTION 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

National Exposure Standards:	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m ³ (for inspirable dust) and 3mg/m ³ (for respirable dust).
Biological Limit Values:	No information available on biological limit values for this product.
Engineering Controls:	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.
Personal Protection:	RESPIRATOR: Wear a respirator fitted with an organic vapour filter (Type A) where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716). EYES: Safety glasses with side shields (AS1336/1337). HANDS: Wear rubber or PVC gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).
General Precautions:	Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	A lavender coloured aqueous solution.
Formula:	Unspecified.
Odour:	Unspecified.
Vapour Pressure (mm Hg):	23.8 @ 25°C.
Vapour Density:	Not applicable.
Boiling Point:	100°C.
Melting Point:	0°C
Solubility in Water:	Moderately soluble.
Specific Gravity (H₂O = 1):	1.42
Flash Point:	Not applicable.
pH:	4.6
Lower Explosion Limit:	Not applicable.
Upper Explosion Limit:	Not applicable.
Ignition Temperature:	Not applicable.
Specific Heat Value:	Not applicable.
Particle Size:	Not applicable.
Volatile Organic Compounds (VOC) Content:	Not applicable.
Evaporation Rate:	Not applicable.
Viscosity:	Not applicable.
Percent Volatile:	Not applicable.
Octanol/Water partition coefficient:	Not applicable.
Saturated Vapour Concentration:	Not applicable.
Additional Characteristics:	Not applicable.
Flame Propagation/Burning Rate of Solid Materials:	Not applicable.

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Properties of Materials That May Initiate or Contribute to Fire Intensity:	Not applicable.
Potential for Dust Explosion:	Not applicable.
Reactions that Release Flammable Gases:	Not applicable.
Fast of Intensely Burning Characteristics:	Not applicable.
Non-flammables That Could Contribute Unusual Hazards to a Fire:	Not applicable.
Release of Invisible Flammable Vapours and Gases:	Not applicable.
Decomposition Temperature:	260°C.
Additional Information:	No data available.

SECTION 10. STABILITY & REACTIVITY

Chemical Stability:	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid:	Avoid excessive heat, generating dust, direct sunlight, moisture, water, and high humidity.
Incompatible Materials:	Incompatible with oxidizers, concentrated strong acids & bases.
Hazardous Decomposition Products:	No information available on Hazardous decomposition products for this material.
Hazardous Reactions:	Hazardous Polymerisation will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data:	No toxicological information available for this product.
Health Effects - Acute	
Swallowed:	Non-toxic. Ingestion of moderate amounts of any material can cause nausea and vomiting.
Eye:	Non-irritating to ocular tissue.
Skin:	Non-irritating.
Inhaled:	Non-irritating under normal use conditions. Inhalation of large amounts of mists will cause temporary breathing problem.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Persistence and Degradability:	Biodegradable.
Mobility:	No information available on mobility for this product. Insoluble in water.
Environmental Fate (Exposure):	Avoid contaminating waterways, drains and sewers.
Bioaccumulative Potential:	No information available on bioaccumulation for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal:	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.
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Special Precautions for Land Fill or Incineration:	Contact a specialist disposal company or the local waste regulator for advice. By disposal in approved land fill.
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SECTION 14. TRANSPORT INFORMATION

Land Transport	
UN Number:	Not applicable.
Shipping Name:	ZINMET® 100
Dangerous Goods Class:	Not applicable.
Subsidiary Risk:	Not applicable.
Pack Group:	Not applicable.
Precaution for User:	No data available.
Hazchem Code:	N/A
Sea Transport	
UN Number:	Not applicable.
Shipping Name:	ZINMET® 100
Dangerous Goods Class:	Not applicable.
Subsidiary Risk:	Not applicable.
Pack Group:	Not applicable.
Precaution for User:	No data available.
Hazchem Code:	N/A

SECTION 15. REGULATORY INFORMATION

No data Available.	
Poisons Schedule:	N/A
EPG:	N/A
AICS Name:	No data available.
NZ Toxic Substance:	No data available.
HSNO Hazard Classification:	No data available.
ERMA Approval Code:	No data available.

SECTION 16. OTHER INFORMATION

Literature References:	No data available.		
Sources for Data:	No data available.		
Legend to abbreviations and acronyms:			
<	less than	mg/kg	milligrams per kilogram
>	greater than	mg/m3	milligrams per cubic meter
AICS	Australian Inventory of Chemical Substances	Misc	miscible
CAS	Chemical Abstracts Service (Registry Number)	miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
cm2	Square centimeters	mm	millimeter
CO2	Carbon Dioxide	mPa.s	milli Pascal per second
COD	Chemical Oxygen Demand	N/A	Not Applicable
deg C (°C)	degrees Celsius	NOHSC	National Occupational Health and Safety Commission

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ERMA	Environmental Risk Management Authority	OECD	Organization for Economic Co-operation and Development
G	Gram	PEL	Permissible Exposure Limit
g/cm3	grams per cubic centimeter	ppb	parts per billion
g/l	grams per liter	ppm	parts per million
HSNO	Hazardous Substance and New Organism	ppm/2h	parts per million per 2 hours
IDLH	Immediately Dangerous to Life and Health	ppm/6h	parts per million per 6 hours
immiscible	liquids are insoluble in each other	RCP	Reciprocal Calculation Procedure
kg/m3	kilograms per cubic meter	STEL	Short Term Exposure Limit
LC50	LC stands for lethal concentration. 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 of time, usually 1 or 4 hours.	TLV	Threshold Limit Value
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	tne	tonne
ltr	Liter	TWA	Time Weighted Average
m3	cubic meter	ug/24H	micrograms per 24 hours
mbar	mill bar	UN	United Nations (number)
Mg	milligram	wt	weight
mg/24H	milligrams per 24 hours		

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