


Safety Data Sheet

Booster ZnMo™ SDS revision 02 06th Oct 2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Booster ZnMo™
Other Names	None
Uses:	Plant food, activator and catalyst for professional applicators
Chemical family	Plant / crop nutrition
Chemical formula	Compounded product, no data available
Chemical name	Compounded product, no data available
Product description	Liquid fertiliser, for the correction and prevention of plant nutrient deficiencies
Contact details of the supplier of this Safety Data Sheet	
Company Name	Agrichem
Company address	2 Hovey Rd Yatala QLD 4207 Australia
Phone number	+ 61 7 3451 0000
Emergency contact	Poison Information Centre Australia – 13 11 26

2. HAZARD IDENTIFICATION

Poisons Schedule (Australian)	Not listed in SUSMP
Globally Harmonised System (GHS) Hazard classification	Hazardous according to the criteria of the GHS Classification and Labelling of Chemicals (GHS) and or Safe Work Australia code of practice, preparation of Safety Data Sheets for hazardous chemicals.
Hazard Category	Acute oral toxicity category 4
Pictograms	
Signal word	Warning
Hazard Statements	H302 Harmful if swallowed.
Prevention	P264 Wash hands thoroughly after handling. P270 Do not eat drink or smoke when using this product.
Response	P301+317 IF SWALLOWED: Get medical help. P330 Rinse mouth
Disposal	P510 Dispose of contents/container in accordance with local, state and federal regulations
National Transport Commission (Australian) Australian Code for the transport of Dangerous Goods by Road and Rail (ADG Code)	
Is Not a Dangerous Goods according to the criteria of the ADG Code for road or rail transport ref ADG Code, ref to chapter 14 of this SDS.	

3. INFORMATION ON INGREDIENTS

Ingredient	Identifiers	Proportion %w/w
Zinc EDTA solution	CAS: 15954-98-0 EC: No data available	≥30 <60
Seaweed extract	CAS: No Data Available EC: No data available	≥10 – <30
Water	CAS: 732-18-5 EC: 231-791-2	≥10 – <30
Sodium molybdate	CAS: 7631-95-0 EC: 231-551-7	<10%

No other ingredients present which to the current knowledge of Agrichem & in the concentrations present are classified as hazardous to health and thereby require reporting in this chapter.

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Rinse mouth with water. Drink plenty of water/milk if possible. Do not induce vomiting, seek medical advice immediately. Take this SDS with you to the medical examination.
Eye	Immediately wash in and around the eye area with plenty of water for 15 minutes. Eyelids to be held apart. Check for contact lenses, remove if easy to do. Seek medical advice if irritation persists
Inhalation	Avoid breathing mist, spray or vapour. If inhaled, remove to fresh air. Should breathing become irregular or stop, apply artificial respiration. Consult a medical doctor immediately.
Skin	Take off contaminated clothing. Rinse skin / hair immediately with plenty of soap and water for several minutes. Seek medical advice if irritation persists. Wash clothing prior to reuse.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient. If patient has inhaled decomposition product (fire) symptoms may be delayed. Exposed person to remain under medical observation for 48 hours.
Medical Conditions Aggravated by Exposure	No Data Available

Have the product container or label with you when calling the Poison Information Centre or a doctor or going for treatment.

5. FIRE FIGHTING MEASURES

General measures	Clear 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	Non-flammable, aqueous solution.
Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Fire and Explosion Hazard	Containers if heated, resultant increase in pressure may cause container to burst. Do not inhale fumes and or gases of combustion.
Hazardous Products of Combustion	No Data Available
Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	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).
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

6. ACCIDENTAL RELEASE MEASURES

General Response Procedures	Avoid accidents, clean up immediately. Slippery when spilt. Increase ventilation. Avoid generating dust from dried product. Stop leak if safe to do so. Isolate the danger area.
Clean up Procedures	Land spill: Dike spill with absorbent or impervious materials such as earth, sand or clay. Vacuum, shovel, pump or sweep up the product and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. See containment section below. Spillage into water: Where possible, remove any intact containers from the water. Advice to local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns water to normal environmental background levels.
Containment	Stop Leak if safe to do so. Isolate the danger area. Dike and absorb spill using inert absorbent materials such as earth, sand, clay, zeolite, or diatomaceous earth.
Environmental Precautionary Measures	DO NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority and local Waste Management. The product is soluble in water (see section 12)
Evacuation Criteria	Evacuate all unnecessary personnel from immediate area
Personnel Precautionary Measures	Personnel involved in the clean-up should wear protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling	Prevent against physical damage. Wash hands after handling this material. Good housekeeping, splash and dust (when product dries) prevention procedures should be followed to minimize exposure and accumulation. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Avoid contact with eyes, skin and clothing. Do not inhale product mist, spray or fumes
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed if not in use. Inspect regularly for hazards such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Do not store with food stuffs. Use good housekeeping practices to prevent accumulation of product and follow sound cleaning techniques that will prevent contamination. Dry indoor storage is recommended. Provide appropriate ventilation and store containers such as to prevent any accidental damage.
Container / tankage	Store in original packaging as approved by manufacturer

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards has been established for this product by Safe Work Australia
Exposure Limits	No Data Available. However all atmospheric contamination should be keep to as low a level as is workable
Biological limits	No information on biological limit values available for this product.
Engineering Measures	A system of local and or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust extraction / ventilation is preferred as it controls emissions at the source preventing dispersion of the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.
Personal Protection	



Equipment PPE	
	RESPIRATOR: Respirators should be used for conditions of use where exposure to spray or mist is apparent and engineering controls are not feasible.
	EYES: Use chemical safety goggles. Maintain eye wash fountain and quick drench facilities in work area (AS1336/1337). An emergency eyewash or water supply should be readily accessible to the work area.
	HANDS: Gloves, chemical resistant (AS2161).
	CLOTHING: Lab coat, apron or coveralls and safety footwear (AS3765/2210).
Work Hygienic practices	Thoroughly wash hands, forearms and face after using product, prior to eating, smoking using toilet or at end of work period. Contaminated clothing to be laundered prior to re-use

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Solution
Odour	Slight, characteristic
Colour	Green
pH	5.5 – 6.5
Vapour pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling point	>100 degrees Celsius
Melting point	No Data Available
Freezing point	No Data Available
Solubility in water	Soluble in water (aqueous solution)
Specific gravity (kg/l)	1.16 – 1.20
Flash point	No Data Available
Auto Ignition Temp	No Data Available
Decomposition temp	No Data Available
Molecular weight	No Data Available
Particle size	Solution product, no significant particles present
Particle size distribution	Solution product, no significant particles present
Viscosity	< 100 centipoise
Note: Physical data are typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.	

10. STABILITY AND REACTIVITY

General Information	This product is stable under normal handling and storage conditions.
Chemical Stability	Stable under ordinary conditions.
Conditions to Avoid	Excessive heat, do not store near heat or flames or temperatures below 5 deg C.
Materials to Avoid	<ol style="list-style-type: none"> 1. Strong bases – may react 2. Strong oxidising agents – may decompose
Hazardous Products of Decomposition	No Data Available
Hazardous Polymerisation	No Data Available

11. TOXICOLOGICAL INFORMATION	
General Information	No Data Available Exposure by all routes should be minimised under good product stewardship.
Eye Irritant	No Data Available
Ingestion	LD50 via ATE 1691 mg/kg May cause diarrhoea, nausea, vomiting, cramps, weakness and tiredness
Inhalation	No Data Available
Skin Irritant	No Data Available
Reproduction	No Data Available
Carcinogen Category	No Data Available
Mutagenicity	No Data Available
Information on toxicological effects by ingredients where available	
Zinc EDTA	Oral LD ₅₀ >2000 mg/kg for the sodium salt
Sodium molybdate	Oral LD ₅₀ 4000mg/kg

12. ECOLOGICAL INFORMATION	
General Ecotoxicity	Adopt good working practices and procedures to restrict environmental release.
Algal toxicity	No Data Available
Invertebrate toxicity	No Data Available
Vertebrate toxicity	No Data Available
Persistence/ Degradability	Readily biodegradable in plant and soil
Mobility	Highly soluble in water
Environmental Fate	Do NOT let product reach waterways, drains and sewers
Bioaccumulation	Low, as all elements in product are essential to plant life
Environmental impact	No Data Available
Information on ecological effects by ingredients where available	
Sodium molybdate	LC50 96hr Fish 18.452mg/L EC50 48hr Crustacea 3618mg/L

13. DISPOSAL CONSIDERATIONS	
General Information	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
Special Precautions for Landfill	Small quantities of this product can usually be disposed of at Liquid Waste Disposal sites. No special disposal treatment is required, but local authorities should be consulted about any specific local requirements. Larger volumes of this product are not recommended to be sent to Liquid Waste Disposal sites. Such product should, if possible, be used for an appropriate application.

14. TRANSPORTATION INFORMATION	
Land Transport, Australian Dangerous Goods Code (ADG Code) for transport by road and rail.	
DG classification	Not a Dangerous goods as per ADG Code
Regulation: IMDG	
UN number	Not regulated

UN proper shipping name	Not regulated
Transport hazard class (es)	Not regulated
Packaging group	Not regulated
Environmental hazard	Not regulated
Marine pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport

Regulation: ADR

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class (es)	Not regulated
Packaging group	Not regulated
Environmental hazard	Not regulated
Additional information	Not regulated
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport

Air transport: International Air Transport Association (IATA)

DG classification	Not regulated
Proper Shipping Name	Not regulated
Class	Not regulated
EPG	Not regulated
UN Number	Not regulated
Packaging group	Not regulated
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport

15. REGULATORY INFORMATION

General information	Not a Dangerous goods under ADG Code
Poisons Schedule	Not listed in SUSMP
Hazardous Chemical Information system (HCIS)	Not listed in HCIS

16. OTHER INFORMATION

The information contained in this SDS is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Agrichem, this SDS does not offer any advice in respect to any product. The authors and Agrichem hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this SDS.

KEY

< Less than
 > Greater than
a.i. Active ingredient
ADG Code Australian dangerous goods code
AICS Australian Inventory of Chemical Substances
ATE Acute toxicity estimation
atm Atmosphere
CAS Chemical Abstract Service (registry number)
Cm² Square Centimetres
CO₂ Carbon Dioxide
deg C (°C) Degrees Celsius
EPA Environmental Protection Agency based in each state of Australia
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
GRAS Generally recognised as safe
HSIS Hazardous substances information system
HSNO Hazardous substances and New Organism
HDPE High density polypropylene
IDLH Immediately Dangerous to Life and Health
Immiscible Liquid are insoluble in each other
inHg inch of Mercury
inH₂O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilogram per Cubic Metre
LC₅₀ LC stands for lethal concentration, LC₅₀ is the concentration of a product in air that will cause the death of 50% of a population of test animals. Product is normally inhaled for between 1 and more typically 4 hours
LD₅₀ LD stands for lethal dose. LD₅₀ is the amount of product given in a single dose, causing death in 50% of a population of test animals.

End of SDS

LDLo The lowest amount of a solid or liquid material reported to have caused the death of animals or humans
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or Miscible Liquids from one homogeneous liquid phase regardless of the amount of either component present
mm Millimetre
mmH₂O Millimetres of Water
mPa.s Millipascals per Second
MSHA Mine safety and health administration
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Health and Safety Commission
OECD Office for Economic Co-operation and Development
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
PPE personal protective equipment
ppm Parts per Million
ppm/2h Parts per million per 2 hours
ppm/6h Parts per million per 6 hours
psi Pounds per square inch
R Rankine
RCP Reciprocal Calculation Procedure
SCBA Self Contained Breathing Apparatus
SWA Safe Work Australia
STEL Short Term Exposure Limit
SUSMP Standard for the uniform scheduling of medicines and poisons
TVL Threshold Limit Value
TWA Time Weighted Average
UN United Nations
wt Weight