

Safety Data Sheet Maxi Mang revision SDS 01 7th Feb 2017

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Other NamesNoneUses:Plant forChemical familyInorgaChemical formulaCompChemical nameNo DaProduct descriptionLiquid	Plant food, activator and catalyst, for professional applicators Inorganic mineral based plant nutrition Compounded product see section 3 No Data Available Liquid fertiliser, for the correction/prevention of nutrient deficiencies		
	em		
	Information Centre	Australia – <b>13 11 26</b>	
	2. HAZARI	DIDENTIFICATION	
Poisons Schedule (Australian (SUSMP))	Not listed		
Globally Harmonised System Hazard classification	Classification and	ing to the criteria of the Globally Harmonised System of Labelling of Chemicals (GHS) and Safe Work Australia code of ion of Safety Data Sheets for hazardous chemicals (SWACOPSDS).	
Hazard Category	Acute oral catego	bry 4	
Pictograms	Exclamation n	nark	
Signal word	Warning		
Hazard Statements Health hazard	H320	Harmful if swallowed, in contact with skin, or if inhaled. Causes eye irritation.	
<b>Precautionary Statemen</b> Prevention	ts P234 P264 P280 P273	Keep only in original container. Wash exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/ face protection Avoid release to the environment.	
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Head Office 2 Hovey Road, Yatala QLD 4207, Australia Post PO Box 4037, Loganholme QLD 4129, Australia Free 1800 65 47 58 Phone +61 7 3451 0000

> Fax +61 7 3451 0093 Web agrichem.com.au



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Response	P301+330+331	IF SWALLOWED: Rinse mouth. Do Not induce vomiting.
	P303+361+353	IF ON SKIN: (or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call POISON CENTRE or doctor/physician
Storage	P405	Store locked up
Disposal	P501	Dispose of contents / container in accordance with local/regional/ national or international regulations

## National Transport Commission (Australian)

Australian Code for the transport of Dangerous Goods by Road and Rail (ADG Code)

**Dangerous Goods Classification** 

Is NOT a Dangerous Goods according to the criteria of the ADG Code for road or rail transport ref ADG Code 7.4.

## 3. INFORMATION ON INGREDIENTS

Ingredients			
	Chemical entity	CAS Registry Number	Proportion %w/w
	Water	7732-18-5	Balance
	Manganese carbonate	598-62-9	<60

No other ingredients present which to the knowledge of the supplier and at the concentrations present, are classified as hazardous to health or the environment thereby require reporting in this section.

## 4. FIRST AID MEASURES

### Description of necessary measures according to routs of exposure

Swallowed	Call the Poisons Information Centre Australia or a doctor for treatment advice. Have the person sip a glass of water / milk if able to swallow. Do not induce vomiting unless told to do so by the Poison Information Centre or by a doctor. Do not give anything by mouth to an unconscious person.
Еуе	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Remove contact lenses if present and easy to do so. Call a medical doctor or poison information centre for treatment advice.
Skin	Immediately remove any contaminated clothing. Wash skin, & hair with soap or mild detergent and water for at least 15 minutes. Call the Poison Information Centre or a medical doctor for treatment advice if irritation persists. Wash clothing before re-use.



Aggravated by Exposure

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Inhalation	Remove to fresh air. If not breathing call ambulance, give artificial respiration, use pocket mask with one way valve or other respiratory medical device. If breathing is difficult give oxygen. Call a doctor / physician or the Poison Information Centre for treatment advice.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions	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 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	Non-combustible, aqueous suspension.	
Extinguishing Media	Use any means suitable for extinguishing surrounding fire.	
Fire and Explosion Hazard	Non-combustible. Containers if heated, resultant increase in pressure may cause container to burst.	
Hazardous Products of Combustion	May include the following, carbon monoxide & dioxide nitrogen oxides and manganese oxide/oxides. Avoid breathing vapours, fumes and dust from burning product. Inhalation of decomposition products caused by fire, symptoms may be delayed.	
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	



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6. ACCIDENTAL RELEASE MEASURES		
General Response Procedures	Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition Increase ventilation. Avoid generating dust from dried product. Stop leak if safe to do so. Isolate the danger area. Use clean non sparking tools and equipment.	
Clean up Procedures	Land spill: Dike spill with using 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. Advise 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 the elements listed in section 3 to its normal environmental background level. Product is largely insoluble, and will over time settle on bottom of water way and may be removed by dredging / skimming top sediment layer from the bottom of waterway.	
Containment	Stop Leak if safe to do so. Isolate the danger area. Dike and absorb spill using inert absorbe 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 large insoluble in water however high concentrations may cause damage to plant roots and foliage via absorption (see section 12)	
Evacuation Criteria	Evacuate all unnecessary personal from immediate area	
Personal Precautionary Measures	Personal involved in the clean-up should wear full protective clothing as listed in section 8. Note adding water to this product will cause rapid heating and possible steam explosion.	
	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. Your supplier can advise you on safe handling, please contact the supplier. Apply above handling advice when mixing with other substances.
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.



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Container

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No Data Available for this product. Limited data is available for the components and is listed below.	
	<b>Ingredient</b> Manganese carbonate	<b>Exposure standard</b> TWA based on elemental Manganese in dust form is 1mg/m <sup>3</sup>
	hazards. All atmosp These exposure sta	lard is a guide to be used in the control of occupational health oheric contamination should be kept to as low a level as is workable. ndards should not be used as sharp delineations between safe and ntrations of chemicals. They are not a measure of relative toxicity.
Exposure Limits	No Data Available	ref to above TWA's for product components
Biological limits	No information on	biological limit values for this product.
Engineering Measures	low as possible. Loc the source prevent	and or general exhaust is recommended to keep employee exposure as cal exhaust extraction / ventilation is preferred as it controls emissions at ing dispersion of the general work area. Adequate ventilation should be kposure limits are not exceeded.
Personal Protection Equipment PPE		ators should be used for conditions of use where exposure to spray or d engineering controls are not feasible, a full face gas respirator \$1715/1716).
	EYES: Use chemica facilities in work are	l safety goggles. Maintain eye wash fountain and quick drench ea (AS1336/1337).
	HANDS: Gloves, ch	emical resistant (AS2161).
	CLOTHING: Lab co	at, apron or coveralls and safety footwear (AS3765/2210).
Work Hygienic practices		ands, forearms and face after using product, prior to eating, smoking using vork period. Contaminated clothing to be laundered prior to re-use.
	9. PHYSIC	CAL AND CHEMICAL PROPERTIES

**Physical state** 

Liquid



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	Maxi Mang r
Appearance	opaque suspension
Odour	Slight, Characteristic
Colour	Beige / brown
рН	8.0 - 9.5
Vapour pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling point	No Data Available
Melting point	No Data Available
Freezing point	< 4 deg Celsius
Solubility in water	Insoluble
Specific gravity	1.83 – 1.86
Flash point	No Data Available
Auto Ignition Tem	No Data Available
Decomposition temp	No Data Available
Molecular weight	No Data Available
Particle size	No Data Available
Particle size distribution	No Data Available
Viscosity	No Data Available

**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.	
Materials to Avoid	<ol> <li>Strong bases- may decompose vigorously, may release ammonia.</li> <li>Strong oxidizing agents – may decompose.</li> </ol>	
Hazardous Products of Decomposition	Under normal handling and storage conditions, hazardous products of decomposition should not be produced	



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**Hazardous Polymerization** 

carbonate

No Data Available

		11. TOXICOL	OGICAL INFORMATION		
General Information	No Date	No Data Available for the product			
Eye Irritant	Мау сс	May cause irritation			
Ingestion	Harmfu	Harmful if swallowed			
Inhalation	May be	harmful if inhale	d		
Skin Irritant	Мау сс	May cause skin irritation			
Reproduction	No Date	No Data Available			
Carcinogen Category	No Date	a Available			
<b>Toxicity for component</b> Ingredient Manganese	s of this product Exposure route Oral	<b>Species</b> In the Rat	<b>Dose</b> LD₅0 >2000 mg/kg	<b>Ref</b> ECHA	

# 12. ECOLOGICAL INFORMATION

Ecotoxicity	No Ecological information is available for this product	
	Algal toxicity: No Data Available	
	Invertebrate toxicity: No Data Available	
Persistence/ Degradability	No Data Available	
Mobility	Fully water soluble.	
Environmental Fate	Do NOT let product reach waterways, drains and sewers	
Bioaccumulation	Not Data Available	
Environmental impact	No Data Available	



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Eco toxicity for components of this product					
Ingredient	Exposure	Species	Dose	Ref	
Manganese	48 hours	Daphnia magna	EC <sub>50</sub> >3.6 mg/l fresh water	ECHA	
carbonate					

## 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. Do not incinerate as oxides of sulphur may be produced.

# 14. TRANSPORTATION INFORMATION

# Land Transport, Australian Dangerous Goods Code (ADG Code)

	This product is not considered a goods and is not subject to the provisions of ADR Code for transport by road or rail.			
Proper Shipping Name	Not applicable to non-dangerous goods			
Class	Not applicable to non-dangerous goods			
EPG	Not applicable to non-dangerous goods			
UN Number Not applicable to non-dangerous goods				
Packaging group	Not applicable to non-dangerous goods			
15. REGULATORY INFORMATION				

**General information Poisons Schedule** 

Australian inventory ((AICS(NICNAS) all components are either listed or exempt Not listed

## **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 Manufacturing Industries Pty Ltd 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.



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Key

< Less than > Greater than a.i. Active ingredient ADG Code Australian dangerous goods code **AICS** Australian Inventory of Chemical Substances **ATE** Acute toxicity extimation atm Atmosphere **CAS** Chemical Abstract Service (registry number) Cm<sup>2</sup> 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/I Grams per Litre 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 InH<sub>2</sub>0 Inch of Water K Kelvin kg Kilogram kg/m<sup>3</sup> Kilogram per Cubic Metre LC 50 LC stands for lethal concentration, LC 50 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 LD<sub>50</sub> LD stands for lethal dose. LD<sub>50</sub> is the amount of product given in a single dose, causing death in 50% of a population of test animals. LDLo The lowest amount of a solid or liquid material reported to have caused the death of animals or humans m<sup>3</sup>Cubic Metre mbar Millibar mg Milligram mg/24H Milligrams per 24 hours mg/kg Milligrams per Kilogram mg/m<sup>3</sup> Milligrams per Cubic Metre Misc or Miscible Liquids from one homogeneous liquid phase regardless of the amount of either component present mm Millimetre mmH<sub>2</sub>O 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



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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
TVL Threshold Limit Value
TWA Time Weighted Average
UN United Nations
wt Weight

End of SDS