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Product Name: Barmac Metalaxyl 250 Systemic Fungicide

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This version issued: March 2017

Section 1 - Identification of the Material and Supplier

Trade Name: BARMAC METALAXYL 250 SYSTEMIC FUNGICIDE
Other Names: Metalaxyl 250
APVMA Code: 83174
Product Use: Agricultural systemic fungicide for use as described on the product label.
Supplier: Barmac (a division of Amgrow Australia Pty Ltd)
3/29 Birnie Ave, Lidcombe NSW 2141
Phone: 02 9395 1200 (office hours), Fax: 02 9395 1241
www.amgrow.com.au

Creation Date: March 2017
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

THIS PRODUCT IS CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA.

NOT A DANGEROUS GOOD ACCORDING TO CRITERIA OF ADG, IATA, OR IMDG CODES

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code,

GHS Signal word: DANGER



Acute Toxicity – Category 4
Aspiration Hazard – Category 1
Skin Sensitisation – Category 1
Hazardous To the Aquatic Environment (Chronic) – Category 3

HAZARD STATEMENT:

H302: Harmful if swallowed
H304: May be fatal if swallowed and enters airways
H317: May cause an allergic skin reaction
H412: Harmful to aquatic life with long lasting results

PREVENTION

P102: Keep out of reach of children.
P103: Read Label before use
P261: Avoid breathing mists or vapours
P264: Wash all contacted areas thoroughly
P270: Do not eat, drink or smoke when using this product
P272: Contaminated work clothing should not be allowed out of the workplace
P273: Avoid release to the environment
P280: Wear protective gloves, clothing and eye protection

RESPONSE

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/ doctor
P331: Do NOT induce vomiting
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P333+P313: If skin irritation or rash occurs: get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse
P308+P313 If exposed or concerned: get medical advice/attention.

STORAGE

P405: Store locked up

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Issued by: Amgrow Pty Ltd

Phone: 02 9395 1200 (office hours)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)



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DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & Colour: Clear amber liquid

Odour: Mild solvent odour

Major Health Hazards: May cause allergic skin reaction

Section 3 - Composition/Information on Ingredients

Ingredient	CAS No	Conc. (%)
Metalaxyl	57837-19-1	25
Aromatic hydrocarbon	64742-94-5	30-60
Other non hazardous ingredients		to 100

Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: Remove source of contamination or move victim to fresh air. Keep comfortable for breathing. Call Poisons centre or doctor if symptoms persist

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed.

Eye Contact: Flush contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor immediately.

Note to Physician / First Aiders: Treat Symptomatically. Note that this product contains an aromatic hydrocarbon. Induction of vomiting may lead to inhalation of its vapours, which in turn may lead to lung damage.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: If a significant quantity of this product is involved in a fire, call the fire brigade. Fire decomposition products from this product may form toxic mixtures in confined spaces. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances

Extinguishing Media: Water fog or fine spray, foam, dry chemical

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered.

Flash point: >62°C (solvent)

Upper Flammability Limit: No data

Lower Flammability Limit: No data

Auto ignition temperature: Not relevant

Flammability Class: C1 Combustible liquid

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses and keep personnel away. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains.

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If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10.

Section 8 - Exposure Controls and Personal Protection

<u>Exposure Limits</u>	<u>TWA (mg/m³)</u>	<u>STEL (mg/m³)</u>	<u>ADI (mg/Kg/day)</u>	<u>NOEL (mg/Kg/day)</u>
Metalaxyl	not set	not set	0.03	3

Exposure limits have not been set by SWA for any ingredients in product. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values from Australian ADI List, 31st March 2012

Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber.

Respirator: A respirator or mask is recommended when using this product.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear amber liquid
Odour:	Mild solvent odour
Boiling Point:	No data
Freezing/Melting Point:	No data.
Volatiles:	No data
Specific Gravity:	1.021
Water Solubility:	Emulsifiable
pH:	No data
Volatility:	No data
Odour Threshold:	No data.
Evaporation Rate:	No data
Auto ignition temp:	No data

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: Strong oxidising agents

Fire Decomposition: May produce toxic substances

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Toxicity: For the active ingredient only: Metalaxyl:

LD50 Oral (rat) = 669 mg/kg

LD50 Dermal (rat) > 3100 mg/kg

Studies with rats and goats showed rapid metabolism and excretion via urine and faeces.

Potential Health Effects

Inhalation: Available data shows that this product may be harmful if inhaled.

Skin Contact: Available data shows that this product may cause skin irritation.

Eye Contact: This product may cause irritation to eyes

Ingestion: Harmful if swallowed

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

Environmental Data:

Metalaxyl has a half-life of 1 to 8 weeks in soil. The major breakdown product is from the hydrolysis of the methyl ester. Although it readily leaches in sandy soil, increased organic matter decreases leaching.

Ecotoxicology:

Metalaxyl:

Practically non-toxic to birds and freshwater fish.

Non-toxic to bees

96hr LC50 (rainbow trout, carp, bluegill) > 100mg/L, LC50 (Daphnia magna): 12.5 to 28 mg/l

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

ADG: Considered exempt (AU01) from classification as Dangerous Goods by the criteria of the Australian dangerous goods Code 7 (ADG) for the transport by Road and Rail in packaging including IBCs.

IMDG/ IATA: Not Classified as Dangerous Goods according to the criteria of the International Maritime Dangerous Goods Code (IMDG) by sea and the International Air Transport Association (IATA) Dangerous Goods Regulations for the transport by air.

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Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

SUSMP: POISON scheduled S5

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail	IMSBC	International Maritime Solid Bulk Code
AICS	Australian Inventory of Chemical Substances	NOHSC	National Occupational Health and Safety Commission
ASCC	Australian Safety & Compensation Council	NTP	National Toxicology Program (USA)
CAS number	Chemical Abstracts Service Registry Number	R-Phrase	Risk Phrase
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters	SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
IARC	International Agency for Research on Cancer	SWA	Safe Work Australia (formerly ASCC and NOHSC)
IATA	International Air Transport Authority	UN Number	United Nations Number
IMDG	International Maritime Dangerous Good		

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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