



4 Farmers ... For Farmers
Printing date 08.05.2018

Safety Data Sheet

according to WHS Regulations

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Revision: 08.05.2018

1 Identification

Product Name: 4FARMERS METALAXYL-M 350g/L

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Agricultural fungicide

Details of Manufacturer or Importer:

4Farmers Australia Pty Ltd
70 McDowell Street
Welshpool WA 6106

Phone Number: +61 8 9356 3446

Emergency telephone number: National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary Statements

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection / face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients



Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 70630-17-0 Metalaxyl-M (ISO)

38%

 Serious Eye Damage/Irritation 1, H318;  Acute Toxicity (Oral) 4, H302

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CAS: 34590-94-8	(2-methoxymethylethoxy)propanol Flammable Liquids 4, H227	10 - 20%
CAS: 4719-04-4	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol ⚠ Acute Toxicity (Oral) 4, H302; Skin Sensitisation 1, H317	<0.05%

Non Hazardous Components:

CAS: 57-55-6	1,2-Propanediol	10 - 20%
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4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Water fog or fine spray, alcohol resistant foam, dry chemical or carbon dioxide. Water spray and alcohol resistant foam are recommended for large fires. Do not use full water jet as it may spread the fire.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include toxic or irritating vapours and thick smoke.

Product is not flammable, but contains combustible ingredients.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

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Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Decontaminate spill area by washing with detergent and water.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Do not store for prolonged periods in direct sunlight.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 57-55-6 1,2-Propanediol**

WES	TWA: 474* 10** mg/m ³ , 150* ppm *vapour&particulates;**particulates only
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CAS: 34590-94-8 (2-methoxymethylethoxy)propanol

WES	TWA: 308 mg/m ³ , 50 ppm Sk
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Elbow-length PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Red

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Odour:	Weak, uncharacteristic
Odour Threshold:	No information available
pH-Value at 20 °C:	5 - 8 (1% w/v)
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	>90 °C
Flash Point:	>103 °C (Closed Cup)
Flammability:	Product is not flammable.
Auto-ignition Temperature:	435 °C
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not determined
Upper:	Not determined.
Vapour Pressure at 25 °C:	0.0033 Pa (Metalaxyl-M)
Density at 20 °C:	1.1 g/cm ³
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products: Toxic or irritating vapours and thick smoke.

11 Toxicological Information

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

Oral	LD ₅₀	1000 - <3000 mg/kg (rat)
Dermal	LD ₅₀	>4000 mg/kg (rabbit)

CAS: 57-55-6 1,2-Propanediol

Oral	LD ₅₀	2,000 mg/kg (rat)
Dermal	LD ₅₀	20,800 mg/kg (rabbit)

CAS: 34590-94-8 (2-methoxymethylethoxy)propanol

Oral	LD ₅₀	5,135 mg/kg (rat)
Dermal	LD ₅₀	>19,000 mg/kg (rabbit)

CAS: 2611-82-7 trisodium 1-(1-naphthylazo)-2-hydroxynaphthalene-4',6,8-trisulphonate

Oral	LD ₅₀	>8,000 mg/kg (rat)
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Acute Health Effects

Inhalation: No adverse health effects expected.

Skin: No adverse health effects expected.

Eye: Causes serious eye damage.

Ingestion: Harmful if swallowed.

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Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for metalaxyl for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 3 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2018).

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

LC ₅₀ /96 h	>100 mg/l (trout)
EC ₅₀ /48 h	54.4 mg/l (daphnia)
EC ₅₀ /72 h	>100 mg/l (scenedesmus subspicatus)

Persistence and Degradability:

Not readily biodegradable, but is not considered persistent in soil or water.

Metalaxyl-M has a half-life in soil of <50 days.

Bioaccumulative Potential: Low potential for bioaccumulation.**Mobility in Soil:** Ranges from low to high mobility depending on the soil type.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated**Proper Shipping Name** Not regulated

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Dangerous Goods Class Not regulated**Packing Group:** Not regulated

15 Regulatory Information

Australian Inventory of Chemical Substances: All ingredients are listed.**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**
Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 08.05.2018**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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