

SAFETY DATA SHEET

METTLE 40ME FUNGICIDE



Version 1.6 Revision Date: 05.05.2016 MSDS Number: 000000037510 Country: AU
Language: EN

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : METTLE 40ME FUNGICIDE

Product code : 000000037510

Details of the supplier of the safety data sheet

Company: Arysta LifeScience Australia Pty Ltd
c/o Level 3, 70 Hindmarsh Square
Adelaide SA
Australia
5000
Telephone : + 61 8 8112 0900

Prepared by sds.request@arysta.com

Further information for the safety data sheet :
sds.request@arysta.com

1.4 Emergency telephone number

Emergency telephone number: +61 2801 44558, ORICA : 1800 033 111 (24 hr Service)
For advice, contact a Poisons Information Centre (Phone: Australia 131 126 or New Zealand 0800 764 766) or a doctor at once.
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

Restrictions on use : Agriculture
For professional users only.
APVMA No: 67253

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage/eye irritation : Category 1

Carcinogenicity : Category 2

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GHS Label element

Hazard pictograms



Signal word

: Danger

Hazard statements

: H318 Causes serious eye damage.
H351 Suspected of causing cancer.

Precautionary statements

: **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear eye protection/ face protection.
P281 Use personal protective equipment as required.
Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

Hazardous substance
Non-dangerous goods
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Fungicide

Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
Tetraconazole	112281-77-3	< 10
docusate sodium	577-11-7	< 10

SECTION 4. FIRST AID MEASURES

General advice : For advice, contact a Poisons Information Centre (Phone:

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- Australia 131 126 or New Zealand 0800 764 766) or a doctor at once.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water.
- In case of eye contact : If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.
If victim is fully conscious, give a cupful of water.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Do not give milk or alcoholic beverages.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.
Suspected of causing cancer.
irritant effects
Symptoms may be delayed.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
-

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire-fighting : Burning produces irritant fumes.
Burning produces noxious and toxic fumes.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.
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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves Before removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : yellow
- Odour : slight, characteristic
- Odour Threshold : No data available
- pH : No data available
- Melting point/range : < 0 °C
- Boiling point/boiling range : > 100 °C
- Flash point : > 100.5 °C
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Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : 1.058

Relative density : No data available

Solubility(ies)

 Water solubility : emulsifiable

 Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

 Viscosity, dynamic : No data available

 Viscosity, kinematic : No data available

Oxidizing potential : No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if used as directed.

Conditions to avoid : No data available

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

docusate sodium:

Acute oral toxicity : LD50 (Rat): 4,620 mg/kg
GLP: no

LD50 (Rat): 4,620 mg/kg
GLP: no

LD50 (Rat): 4,620 mg/kg
GLP: no

Acute inhalation toxicity : LC50 (Rat): 20 mg/l

LC50 (Rat): 20 mg/l

LC50 (Rat): 20 mg/l

Acute dermal toxicity : LD50 (Rabbit, male): > 5,000 mg/kg
GLP: no

LD50 (Rabbit, male): > 5,000 mg/kg
GLP: no

LD50 (Rabbit, male): > 5,000 mg/kg
GLP: no

Skin corrosion/irritation

Components:

docusate sodium:

Species: Rabbit
Result: Skin irritation
GLP: no

Species: Rabbit
Result: Skin irritation
GLP: no

Species: Rabbit
Result: Skin irritation
GLP: no

Serious eye damage/eye irritation

Components:

docusate sodium:

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Species: Rabbit
Result: Risk of serious damage to eyes.

Species: Rabbit
Result: Risk of serious damage to eyes.

Species: Rabbit
Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks: No data available

Chronic toxicity

Germ cell mutagenicity

Components:

docusate sodium:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

 : Test Type: Ames test
Result: negative

 : Test Type: Ames test
Result: negative

 : Test Type: Chromosome aberration test in vitro
Result: negative

 : Test Type: Chromosome aberration test in vitro
Result: negative

 : Test Type: Chromosome aberration test in vitro
Result: negative

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

docusate sodium:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 28 mg/l
Exposure time: 96 h

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Test Type: semi-static test
Analytical monitoring: no
GLP: no

LC50 (Oncorhynchus mykiss (rainbow trout)): 28 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: no
GLP: no

LC50 (Oncorhynchus mykiss (rainbow trout)): 28 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: no
GLP: no

LC50 (Lepomis macrochirus (Bluegill)): 37 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
GLP: yes

LC50 (Lepomis macrochirus (Bluegill)): 37 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
GLP: yes

LC50 (Lepomis macrochirus (Bluegill)): 37 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 36 mg/l
Exposure time: 48 h
Analytical monitoring: no
GLP: no

EC50 (Daphnia magna (Water flea)): 36 mg/l
Exposure time: 48 h
Analytical monitoring: no
GLP: no

EC50 (Daphnia magna (Water flea)): 36 mg/l
Exposure time: 48 h
Analytical monitoring: no
GLP: no

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

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Components:

Tetraconazole:

Biodegradability : Remarks: Not readily biodegradable.

docusate sodium:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 66.7 %
Exposure time: 28 d
GLP: no

aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 66.7 %
Exposure time: 28 d
GLP: no

aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 66.7 %
Exposure time: 28 d
GLP: no

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Tetraconazole:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 35.7

docusate sodium:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 3.47 - 3.78
Exposure time: 72 h
Elimination: yes
GLP: no

Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 3.47 - 3.78
Exposure time: 72 h
Elimination: yes
GLP: no

Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 3.47 - 3.78
Exposure time: 72 h
Elimination: yes

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GLP: no

Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. In accordance with local and national regulations. Do not dispose of waste into sewer. Can be landfilled or incinerated, when in compliance with local regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

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ADG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

R-phrases) : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases) : S60 This material and its container must be disposed of as hazardous waste.

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 5

Prohibition/Licensing Requirements : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and

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Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Date format : dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AU / EN

Carechem24 International Worldwide Coverage

Emergency Phone Number

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670 (NCEC)
<u>Asia Pacific:</u>	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China	+86 532 8388 9090
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
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<u>America</u>	United States of America and Canada	+1866 928 0789 +1 215 207 0061
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	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670