



Section 1 – Identification of the substance/preparation and the company

Product Name: Donaghys Mycotak®
Company: Donaghys Ltd.
Address: 16 Sheffield Crescent
PO Box 20 449
Christchurch
Telephone Number: 0800 942 006
Manufacturer Product Code: AML0020
Recommended Use: Systemic Fungicide

Section 2 – Hazard Identification

HSNO Classes: 6.6A, 6.8A, 6.9B, 9.1A, 9.2B
GHS Hazard Classifications: Germ cell mutagenicity Category 1
Reproductive toxicity Category 1
Specific target organ toxicity – single exposure Category 2
Hazardous to the aquatic environment chronic Category 1
Hazardous to soil organisms



Hazard Statements: H340 - May cause genetic defects
H360 - May damage fertility or the unborn child (miscarriage)
H371 - May cause damage to organs (liver)
H410 - Very toxic to aquatic life with long lasting effects
H422 - Toxic to the soil environment

Precaution Statements: P102 - Keep out of reach of children
P103 - Read label before use
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash hands, arms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P281 - Use personal protective equipment as required

Signal Word: WARNING
EPA NZ Approval Code: HSR000453

Classified as hazardous according to criteria in the Hazardous Substances (minimum degrees of hazards) Regulations 2001



Section 3 – Composition Information

Chemical	CAS No.	Content
Carbendazim	10605-21-7	800 g L ⁻¹

Balance made up of non-hazardous material
(ERMA New Zealand User Guide to the Thresholds and Classifications)

Section 4 – First Aid Measures

General	Never give anything by mouth to an unconscious person. Keep label or packaging available for emergency personal. Show this SDS to emergency personal if requested. Never give mouth to mouth to a poisoning victim – use a pocket mask to protect yourself.
If Swallowed:	DO NOT induce vomiting. Immediately call the National Poison Centre (0800 764 766) or doctor/physician. If unresponsive, call 111 and request an ambulance.
If in eyes:	Wash eyes cautiously for 15-20 minutes. Remove contact lenses if they are present and it is easy to do so. Continue rinsing. Immediately call the National Poison Centre (0800 764 766) or doctor/physician.
If on skin:	Remove all contaminated clothing and footwear. Immediately flush body and clothing with a large amount of soap and water, using safety shower if available. Wash contaminated clothing before reuse. Contact a doctor/physician if you feel unwell.
If inhaled:	Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. If person is not breathing, call 111 and request an ambulance.
Advice for medical personal	Treat according to symptoms. There are no antidotes. Protect the airways.

**If medical advice is needed, have product container or label at hand.
POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)**

Section 5 – Fire-fighting Measures

Flashpoint:	Not flammable.
Combustion Products:	May give off toxic nitrogen and carbon oxides.
Flammability Limits:	Not flammable.
Protective Equipment:	Self-contained breathing apparatus, protective gloves and clothing.
Extinguishing Media:	Water fog, Foam, carbon dioxide, dry chemicals.
HazChem Code:	3Z
Special Fire Fighting Methods:	Prevent run off entering waterways.

**IN CASE OF EMERGENCY PHONE
National Poisons Centre 0800 POISON (0800 764 766)**



Section 6 – Accidental Release Measures

Small Spill (non-emergency personal)

Spills and Disposal: Absorb spill with an inert material and place in suitable labelled container. We recommend kitty litter. For final clean-up, a detergent - based solvent may be required. DO NOT wash down drain. Collect Spillage.

Protective Equipment: Wear protective nitrile rubber gloves, face/eye protection and appropriate half-mask respirator (see section 8).

Environmental Precautions: Avoid entry into waterways or streams. Prevent washings from entering waterways by damming or covering drain entrances, if safe to do so.

Large Spill (emergency personal)

Spills and Disposal: Absorb spill with an inert material and place in suitable labelled container. We recommend kitty litter. For final cleaning up, a detergent based solvent may be required. DO NOT wash down drain.

Protective Equipment: Wear protective nitrile rubber gloves, face/eye protection and appropriate half-mask respirator (see section 8).

Environmental Precautions: Avoid entry into waterways or streams. Prevent washings from entering waterways by damming or covering drain entrances, if safe to do so.

Prevention: Level 1 emergency management plans need to be in place for quantities between 0.1 and 5 kg
Level 2 emergency management plans need to be in place for all workplaces and or quantities between 5 kg and 100 kg
Level 3 emergency management plans need to be in place for quantities above 100 kg

See Hazardous Substances (Emergency Management) Regulations 2001

Section 7– Handling and Storage

Storage: Store out of direct sunlight.
Keep out of reach of children.
Do not store near waterways.
Do not store where damage may occur.
Do not store where it may be accidentally used.
Store in original container with all labels intact and legible.

Handling: Do not handle until all safety instructions have been read and understood.
Wear eye / face protection.
In case of inadequate ventilation wear respiratory protection.
Avoid unintended release to the environment.

Approved Handler: Only when used in a wide dispersive manner or by a contractor

Tracking regulations: Do not apply

Record Keeping: Good inventory management is required for all hazardous chemicals



Section 8 – Exposure Controls/Personal Protection

These precautions are suggested for conditions where the potential for exposure to the product exists. Emergency conditions may require additional precautions.

- Exposure Limits:** Workplace exposure - Not available
Tolerable Exposure Limits: (TEL): Not available
Environmental Exposure Limits (EEL): Not available
- Protective Equipment:** Observe good work place practices and avoid contact with skin and eyes. To protect your skin and eyes, wear protective overalls, chemical resistant safety glasses and nitrile rubber gloves when handling. Wear eye / face protection. In case of inadequate ventilation, wear half mask filter respiration unit suitable for the conditions. Do not use in an irrespirable atmosphere.
Gloves Wear nitrile rubber gloves with a minimum layer thickness of 0.11 mm. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards.
- Hygiene Precautions:** Do not eat, drink or smoke when using this product. Be careful not to contaminate yourself when removing contaminated clothing. Wash hands, arms and face thoroughly before taking a break.
- Engineering Controls:** Handle in well ventilated area.

Section 9 – Physical and Chemical Properties

- Appearance:** White to grey powder
- Odour** Not available
- pH:** 6.0-8.0
- Vapour Pressure:** 0.09 mPa
- Vapour Density** Not available
- Boiling Point:** >100 °C
- Freezing/Melting point** Not available
- Flash Point:** Not applicable
- Solubility:** Soluble in water, methanol, diethyl ether and acetone
- Density:** Not available
- Dissociation Constant (pK_a)** Not available

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Section 10 – Stability and Reactivity

Stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid:	Avoid direct sunlight, avoid generation of dust and excessive heat
Materials to Avoid:	Alkaline substances
Hazardous Decomposition Products:	May give off toxic nitrogen and carbon oxides in a fire

Section 11 – Toxicological Information

Oral LD₅₀:	LD ₅₀ >100,000 mg kg ⁻¹
Inhalation LC₅₀:	LC ₅₀ >5.4 mg L ⁻¹ 4hr ⁻¹
Dermal:	LD ₅₀ >5000 mg kg ⁻¹
Ocular:	Slightly irritating
Carcinogenicity:	Carbendazim may cause cancer
Reproductive toxicity:	Abortions and some birth defects were found in studies of laboratory animals daily exposed to high amounts of carbendazim during pregnancy
Genotoxicity:	Strong evidence to show genotoxicity behaviour
Neurotoxicity:	There is some evidence to suggest an adverse effect on developmental neurology

Section 12 - Ecological Information

EPA Classification:	Hazardous to the aquatic environment chronic Category 1 Hazardous to soil organisms
Aquatic toxicity:	Very toxic to aquatic species with long lasting effects. No toxicity data is available.
Vertebrate toxicity	No data available
Invertebrate toxicity	No data available
Soil toxicity	Toxic to the soil environment with a 5 – 10-day half-life
Bioaccumulation	No evidence for bioaccumulation
Atmospheric toxicity	No data available
General	Do not allow uncontrolled release into the environment. Do not use where bees are foraging.

Section 13 – Disposal Considerations

Product Disposal:	When empty, triple rinse container and add residues to spray tank. Dispose of empty container at an approved landfill or other approved facility. Avoid contamination of any water supply with product or empty container. Do not re-use container.
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Section 14 – Transport Information

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carbendazim)
UN Number: 3082
DG Class: 9
Packing Group: III
HAZCHEM Code: 3Z

Section 15 – Regulatory Information

EPA NZ Registration Code: HSR000453
See <http://www.epa.govt.nz> for approval conditions
ACVM Approval Number: P005818
See www.foodsafety.govt.nz for registration conditions
Approved handler: Only when used in a wide dispersive manner or by a contractor
Tracking requirements: Not required

Section 16 – Other Information

The information in this SDS is provided in good faith, but no warranty, expressed or implied is made. Contact Donaghys Ltd for more information.

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