

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** WATKINS FUNGUS AND MILDEW SPRAY

**Recommended Use:** For the control of a wide range of diseases on fruit, vegetables and ornamentals.

**Supplier:** Yates New Zealand, a division of DuluxGroup (New Zealand) Pty Ltd  
ABN 55 133 404 118  
Co. 2355191

**Street Address:** The Gate Industrial Park,  
373 Neilson St, Onehunga  
Auckland, New Zealand

**Telephone Number:** +64 9 636 2800

**Facsimile:** +64 9 636 2802

**Emergency Telephone:** 0 800 734 607 (ALL HOURS)

## 2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.



### Subclasses:

- Subclass 6.1 Category B - Substances which are acutely toxic.
- Subclass 6.4 Category A - Substances that are irritating to the eye.
- Subclass 6.5 Category B - Substances that are contact sensitisers.
- Subclass 6.6 Category B - Substances that are suspected human mutagens.
- Subclass 6.7 Category B - Substances that are suspected human carcinogens.
- Subclass 6.9 Category A - Substances that are toxic to human target organs or systems.
- Subclass 9.1 Category A - Substances that are very ecotoxic in the aquatic environment.
- Subclass 9.2 Category B - Substances that are ecotoxic in the soil environment.
- Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

# Safety Data Sheet



## Hazard and Precautionary Information:

Signal Word: Danger.

### Hazard Statements:

Fatal if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Toxic to the soil environment. Harmful to terrestrial vertebrates.

### Precautionary Statements:

Keep out of reach of children. Read label before use. Read Safety Data Sheet before use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands, arms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Avoid release to the environment. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Specific treatment is urgent (see First Aid Measures on this Safety Data Sheet). Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see First Aid Measures on this Safety Data Sheet). Wash contaminated clothing before re-use. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Chlorothalonil	1897-45-6	250 g/L	R26 R37 R40 R41 R43 R50/53
Thiophanate-methyl	23564-05-8	250 g/L	R20 R43 R50/53 R68
Water and other non-hazardous components	-	to 100%	-

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

### Skin Contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

### Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

### Ingestion:

If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

### Medical attention and special treatment:

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Hazards from combustion products:**

Non-combustible material. Decomposes on heating emitting toxic fumes.

**Precautions for fire fighters and special protective equipment:**

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

**Suitable Extinguishing Media:**

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

**Hazchem Code:** 2X

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:**

If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and materials for containment and clean up:**

Wear protective equipment to prevent skin and eye contact and breathing in vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Keep out of reach of children. Avoid skin and eye contact and breathing in vapour, mists and aerosols.

**Conditions for safe storage:** Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).

**Engineering controls:**

Use in well ventilated areas. Keep containers closed when not in use.

**Personal Protective Equipment:**

Avoid contact with eyes and skin and breathing in spray mist. Wear gloves and eye protection when mixing or using. Wash hands and exposed skin thoroughly after use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Off-white
<b>Solubility:</b>	Dispersible in water.
<b>Specific Gravity:</b>	1.18
<b>Relative Vapour Density (air=1):</b>	Not available
<b>Vapour Pressure (20 °C):</b>	Not available
<b>Flash Point (°C):</b>	Not applicable
<b>Boiling Point/Range (°C):</b>	100 (water)
<b>Decomposition Point (°C):</b>	Not available
<b>pH:</b>	5.5-6.5
<b>Viscosity:</b>	Not available
<b>Evaporation Rate:</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Conditions to avoid:</b>	Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition, and open flame.
<b>Incompatible materials:</b>	Incompatible with oxidising agents.
<b>Hazardous decomposition products:</b>	Hydrogen chloride. Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.
<b>Hazardous reactions:</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

<b>Ingestion:</b>	Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.
<b>Eye contact:</b>	A severe eye irritant. Contamination of eyes can result in permanent injury.
<b>Skin contact:</b>	Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
<b>Inhalation:</b>	Breathing in mists or aerosols may produce respiratory irritation.

### Long Term Effects:

No information available for the product. For Chlorothalonil (1) : Available evidence from animal studies indicate that repeated or prolonged exposure to this material could result in effects on the kidneys.

**Toxicological Data:** No LD50 data available for the product. However, for constituent(s) (1):

Oral LD50 (rat): >5000 mg/kg (chlorothalonil); >6640 mg/kg (thiophanate-methyl)

Dermal LD50 (rabbit): >5000 mg/kg (chlorothalonil); >10000 mg/kg (thiophanate-methyl)

For Chlorothalonil : This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 2B. Group 2B - The agent is possibly carcinogenic to humans.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Avoid contaminating waterways and fishponds. Do not allow spray to drift onto aquatic environments, other crops or desirable plants or outside the target area. Keep children, pets, wildlife and birds off treated areas until the spray is dry.
<b>Aquatic toxicity:</b>	Very toxic to aquatic organisms. For Chlorothalonil (1) :
48hr LC50 (Daphnia magna):	70 ug/L
96hr LC50 (rainbow trout):	47 ug/L
<b>Terrestrial toxicity:</b>	Toxic to terrestrial species. Ecotoxic in the soil environment

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to Waste Management Authority. Rinse empty container, puncture and recycle or dispose of safely with domestic rubbish.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.



<b>UN No:</b>	2902
<b>Class-primary</b>	6.1 Toxic
<b>Packing Group:</b>	III
<b>Proper Shipping Name:</b>	PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLOROTHALONIL 25%, THIOPHANATE-METHYL 25%)
<b>Hazchem Code:</b>	2X

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

<b>UN No:</b>	2902
<b>Class-primary:</b>	6.1 Toxic
<b>Packing Group:</b>	III
<b>Proper Shipping Name:</b>	PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLOROTHALONIL 25%, THIOPHANATE-METHYL 25%)

### Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

<b>UN No:</b>	2902
<b>Class-primary:</b>	6.1 Toxic
<b>Packing Group:</b>	III

# Safety Data Sheet



**Proper Shipping Name:** PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLOROTHALONIL 25%, THIOPHANATE-METHYL 25%)

## 15. REGULATORY INFORMATION

**Classification:**

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

**Subclasses:**

- Subclass 6.1 Category B - Substances which are acutely toxic.
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## 16. OTHER INFORMATION

(1) In: 'The Pesticide Manual'. 13th Edition. Ed. CDS Tomlin. British Crop Protection Society, 2003.

**Reason(s) for Issue:**

5 Yearly Revised Primary SDS

This safety data sheet has been prepared by SDS Services.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DuluxGroup Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.