



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** YATES GUARDALL

**Recommended Use:** All purpose insecticide/fungicide for the control of pests and 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:** CHEMCALL 0800 243 622 (ALL HOURS)

## 2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2007 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 D - Substances which are acutely toxic.

Subclass 6.5 Category B - Substances that are contact sensitisers.

Subclass 6.6B Category III - Substances which cause concern for humans owing to possible mutagenic effects.

Subclass 6.7 Category B - Substances that are suspected human carcinogens.

Subclass 6.9 Category B - Substances that are harmful to human target organs or systems.

Subclass 8.3 Category A - Substances that are corrosive to ocular tissue.

Subclass 9.1 Category A - Substances that are very ecotoxic in the aquatic environment.

Subclass 9.2 Category C - Substances that are harmful in the soil environment.

Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Water and other non-hazardous components	-	to 100%	-
Tau-fluvalinate	102851-06-9	9.6 g/L	R22 R38 R50/53
Chlorothalonil	1897-45-6	62.5 g/L	R40 R50/53
Thiophanate-methyl	23564-05-8	62.5 g/L	R20 R43 R50/53 R68

## 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. Can cause corneal burns.

## 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: Dry agent (carbon dioxide, dry chemical powder) - water MUST NOT be allowed to come into contact with substance.

**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).

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## 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>	Light Grey
<b>Odour:</b>	Slight
<b>Solubility:</b>	Dispersible in water.
<b>Specific Gravity:</b>	N Av
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Boiling Point/Range (°C):</b>	100 (water)
<b>pH:</b>	N Av

## 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. Hydrogen cyanide. Hydrogen fluoride. 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. Corrosive to eyes; contact can cause corneal burns. 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); 261 mg/kg (tau-fluvalinate); >6640 mg/kg (thiophanate-methyl)

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Dermal LD50 (rabbit): >5000 mg/kg (chlorothalonil); >2000 mg/kg (tau-fluvalinate); >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

**Ecotoxicity** 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.

**Aquatic toxicity:** Very toxic to aquatic organisms. For Chlorothalonil (1) :

48hr LC50 (Daphnia magna): 70 ug/L  
96hr LC50 (rainbow trout): 47 ug/L

**Terrestrial toxicity:** Harmful to terrestrial species. Harmful in the soil environment.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

### Special precautions for landfill or incineration:

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 5433:2007 Transport of Dangerous Goods on Land.

**UN No:** 3082  
**Class-primary** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(CHLOROTHALONIL 6.25%, TAU-FLUVALINATE 0.96%, THIOPHANATE-METHYL 6.25%)

**Hazchem Code:** 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.

**UN No:** 3082  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(CHLOROTHALONIL 6.25%, TAU-FLUVALINATE 0.96%, THIOPHANATE-METHYL 6.25%)

### 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.

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## 15. REGULATORY INFORMATION

### Classification:

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

### Subclasses:

- Subclass 6.1 Category D - 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:

Change to Transport Information  
Alignment to HSNO requirements

This safety data sheet has been prepared by SH&E Shared 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.