



GLOBAL AGRICHEM

SAFETY DATA SHEET

Suite 4, level 1, 38 Whitaker Place, Grafton
Auckland, New Zealand
Tel: +64 09 972 9837
Fax: +64 09 353 1736
info@globalagrlichem.co.nz

Trade name: **ELITO**

Date of issue: 01 September 2015
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1. Identification of the Substance and Supplier.

Product name: Elito (Tebuconazole 430g/litre SC)
Recommended Use: Fungicide for use in agricultural and horticultural crops.
Company Details: Global Agrichem Limited
Suite 4, level 1, 38 Whitaker Place.
Grafton, Auckland
New Zealand
Web Address: www.globalagrlichem.co.nz
E-mail Address: info@globalagrlichem.co.nz
Telephone number: (09) 972 9837
Emergency Telephone: National Poisons and Hazardous Chemicals Information Centre
Dunedin. Phone: 0800 POISON (0800 764-766)

2. Hazards identification. Classified by EPA as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Hazard Classification:

6.1E: Harmful - May be harmful if swallowed, inhaled or absorbed through the skin
6.9B: Harmful - May cause organ damage from repeated oral exposure at high doses
9.1A: Very Toxic to aquatic organisms
9.3C: Harmful to terrestrial vertebrates

Precautions: Avoid inhalation of spray mist.
Avoid contamination of any water supply with product or empty containers
Do not release into the environment

3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/v)
Tebuconazole	107534-96-3	40.0
Trysrylphenol ethoxylate	99734-09-5	0.9
Soprophor FL	105362-40-1	2.7
Dimethylpolysiloxane	9016-00-6	0.2
Propylene glycol	57-55-6	3.6
Other non- hazardous ingredients		To 100%



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4. First aid measures

- First Aid:** For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
- Inhalation:** Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
- Ingestion:** Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
- Skin Contact:** Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
- Eye Contact:** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.
- Advice to Doctor:** Treat symptomatically (No specific antidote).
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5. Fire-fighting measures

- Suitable extinguishing media:** This product is not flammable. Use water fog, foam, carbon dioxide or dry chemical.
- Hazards from combustion:** May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.
- Special protective equipment for fire fighters:** Wear full protective clothing and self-contained breathing apparatus.
- Special fire-fighting methods:** Keep upwind. Do not allow run-off from firefighting to enter sewage, effluent systems, drains or water courses.
- Hazchem Code:** 2X
- Other Information:** Location Certificate: Not applicable
Hazardous Atmosphere Zone: Not applicable
Number of Fire extinguishers: Not applicable
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6. Accidental release measures

Spills and Disposal: Exclude non-essential people from the area. Wear protective clothing. Contain the spill and absorb with absorbent material (e.g. sand, soil or absorbent granules). If spill does enter waterways, contact the local authority. Collect the absorbed spill in an appropriate sealable container for disposal in an approved landfill. Decontaminate the spill area with detergent and water. Absorb with inert material and dispose of waste safely in an approved landfill.

Personal Protection: Ensure suitable personal protection (PPE). Wear safety goggles, chemically resistant gloves boots and overalls.

Environmental precautions: Prevent washings from entering surface water drains or waterways.

7. Handling and storage

Precautions for safe handling: Do not apply this product onto or into water. Avoid skin and eye contact and inhalation of spray mist. Approved handler: This product must be under the control of an approved handler when applied in a wide dispersive manner or used by a commercial contractor. Tracking: Is not required. Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more is applied within 24 hours. Maximum dose rate: Apply a maximum of 875ml Elito (376g a.i.) per hectare, 3 times per season with a minimal spray interval of 7 days.

Conditions for Safe Storage: Keep out of reach of children. Store in the original container tightly closed in a locked dry cool area away from foodstuffs. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals. Stores containing 100 litres of Elito require signage and secondary containment, more than 100 litres require emergency response plans.

8. Exposure controls/personal protection

Occupational exposure limit values: No exposure limits (WES, TEL or EEL's) have been specifically assigned to this product.

Engineering controls: No special requirements. Product is used outdoors. Handle in well ventilated areas. Generally, natural ventilation is adequate.

Personal Protective Equipment: When opening the container, preparing the spray or applying the product, wear safety goggles, chemically resistant gloves, cotton overalls (worn outside rubber boots)



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Hygiene Measures: Do not eat, drink or smoke while using the product.
Remove protective clothing and wash hands and face thoroughly before meals and after work.
Wash protective clothing daily after work.

9. Physical and chemical properties

Appearance: Liquid
Colour: White suspension
Odour: Slight odour
Flash point: Not flammable
Specific Gravity: 1.12
pH: 8.0 - 10.0
Water solubility: Disperses in water. Not soluble

10. Stability and reactivity

Chemical Stability: Stable under normal conditions of handling and storage. A two year shelf life can be expected.

Possibility of hazardous reactions: Keep away from excessive heat and fire.

Hazardous Polymerisation: Not known to occur.

11. Toxicological information

Acute Toxicity: Toxicology data has not been determined specifically for this formulated product. Data given below is for the active ingredient Tebuconazole.
Acute oral LD₅₀ (rat male): 4000 mg/kg
Acute oral LD₅₀ (rat female): 1700 mg/kg
Acute percutaneous LD₅₀ (rat): > 5000 mg/kg
Inhalation LC₅₀ 4 hour (rat): 0.37 mg/ litre air (aerosol)
Inhalation LC₅₀ 4 hour (rat): > 5.1 mg/ litre air (dust)

Ingestion: Swallowing large quantities may cause nausea and vomiting

Irritation: Non-irritating to eyes and skin (rabbit) - Tebuconazole.
Formulated product is not a skin irritant or eye irritant

Inhalation: Avoid inhalation of spray mist while applying the product. Inhalation may cause similar effects to ingestion.

Sensitisation: Not a sensitiser.

Carcinogenicity: No data available



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Reproductive Toxicity: Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure.

Chronic Effects: May cause damage to the endocrine system from repeated oral exposure at high doses

12. Ecological Information

Ecotoxicity: Very Toxic to aquatic life. Harmful to terrestrial vertebrates.
Avoid contamination of any water supply with product or empty container.
Ecotoxicological data has not been determined specifically for the formulated product. Data given below is for the active ingredient Tebuconazole.

Environmental Fate: Tebuconazole is not rapidly degraded and not bioaccumulative
DT50 (anaerobic): 866 days
DT50 (aerobic): 1386 days

Acute Toxicity to Fish: Rainbow trout LC₅₀ (96 hour): 4.4 mg/litre
Bluegill sunfish LC₅₀ (96 hour): 5.7 mg/litre

Acute Toxicity Aquatic Organisms: Daphnia LC₅₀ (48 hour): 2.79 mg/litre
Algae *Pseudokirchneriella subcapitata* EC₅₀ (72hour): 3.80 mg/litre

Acute Toxicity Vertebrates (Birds): Acute oral LD₅₀ Japanese quail (male): 4438 mg/kg
Acute oral LD₅₀ Japanese quail (female): 2912 mg/kg
Acute oral LD₅₀ Bobwhite quail: 1988 mg/kg
Dietary LC₅₀ (5 d) Bobwhite quail: > 5000 mg/kg feed
Dietary LC₅₀ (5 d) Mallard ducks: > 4816 mg/kg feed

Acute Toxicity to Soil Dwelling Organisms:
Acute LC₅₀ (14 day) Worms *Eisenia foetida*: 1381 mg/kg dry soil

Acute Toxicity to Terrestrial Invertebrates: Honey bee LD₅₀ (48 h oral): > 83 µg/bee
Honey bee LD₅₀ (48 h contact): > 200 µg/bee

13. Disposal considerations

Product disposal: Dispose of this product only by using according to the label or at an approved landfill or other approved facility.

Container disposal: Triple rinse the empty container adding the rinsate to the spray tank.
Recycle if possible, otherwise crush and bury in an approved local authority facility.
Avoid contamination of any water supply with product or empty container.
Do not use container for any other purpose.



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14. Transport regulations

Dangerous Goods: Classified as dangerous goods for transport (9.1A)

Rail /Road /Sea: UN Number: 3082
Class: 9
Packaging Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Tebuconazole 43%)
Hazchem: 2X
Do not carry more than 10 litre of this product on a passenger service vehicle
Segregation: Refer to the latest Land Transport Dangerous Goods Rule 45001
Sea transport may require additional segregation (Refer to NZS5433)

15. Regulatory information

HSNO Approval Number: HSR101009
HSNO Controls: Refer to www.epa.govt.nz .
ACVM Approval: Registered pursuant to the ACVM Act 1997 No: P9175
ACVM Registration conditions: See: www.foodsafety.govt.nz

16. Other information

Abbreviations: ACVM: Agricultural Chemicals and Veterinary Medicines Group.
EEL: Environmental Exposure Limit
EPA: Environmental Protection Authority of New Zealand
CAS Number: Chemical Abstracts Service Number
HSNO: Hazardous Substances and New Organisms ACT 1966
LD₅₀: Lethal Dose 50% (Population)
LC₅₀: Lethal Concentration 50% (Population)
EC₅₀: Half Maximal Effective Concentration 50% (Population)
TEL: Tolerable Exposure Limit
WES: Workplace Exposure Standard

General: Elito is a fungicide for use in agriculture and horticulture. Use only as directed on the label.

This SDS supersedes all previous issues. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Since the actual use of this product is beyond the control of Global Agrichem Ltd, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.
