



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: **TRIPLUS**

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

Product name: Triplus (Trifloxystrobin 500 WG)
Recommended Use: Fungicide for use on various 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:

6.5B: Harmful - may cause sensitisation from prolonged skin contact.
6.9B: Harmful - May cause organ damage from repeated oral exposure at high doses.
9.1B: Toxic - Toxic to aquatic organisms

Precautions: Keep out of reach of children.
Avoid skin and eye contact. Wear protective clothing
Avoid contamination of any water supply with product or empty containers

3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/w)
Trifloxystrobin 98%	141517-21-7	51.0
Sodium polynaphthalene sulphonate	9084-06-4	4.0
Ammonium sulphate	7783-20-2	2.0
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.
- Inhalation:** Remove patient to fresh air. Lie patient down and keep warm and rested. Seek medical advice if feeling unwell.
- Ingestion:** Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. Seek medical advice 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. Seek medical advice if sensitisation occurs.
- Eye Contact:** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical advice if irritation persists.
- First Aid Facilities:** No specific facilities required. Standard emergency equipment must be available.
- Advice to Doctor:** Treat symptomatically. No specific antidote.
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5. Fire-fighting measures

- Fire/Explosion hazard:** Non-flammable
- Suitable extinguishing media:** Water spray, foam, dry chemical carbon dioxide or sand.
- Hazards from combustion:** In a fire, formation of hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxides can be expected.
- 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:** 2Z
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6. Accidental release measures

- Spills and Disposal:** Exclude non-essential people from the area. Wear suitable protective clothing. Contain the spill and sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with absorbent material (e.g. sand, soil or absorbent granules) and place in waste containers. If spill does enter waterways, contact the local authority.



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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 eye protection, 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:

Avoid skin and eye contact and inhalation of spray mist
Approved handler: This product must be under the control of an approved handler during use.
When using, do not eat, drink or smoke.
Wash face and hands before eating, drinking or smoking

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.

8. Exposure controls/personal protection

Occupational exposure limit values: No EELs, TELs or WES have been set for 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) and where exposed to spray mist, a respirator (organic vapour and particulate matter).

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: Solid - granule
Colour: Light brown



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Odour: No characteristic odour
Flash Point: Not flammable
pH: 8.5 – 10.5
Water solubility: Dispersible

10. Stability and reactivity

Chemical Stability: Stable under normal conditions of handling and storage.

Incompatible materials: Do not mix with strong acids and strong alkalis.

Possibility of hazardous reactions: In a fire, formation of hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxides can be expected.

11. Toxicological information

Acute Toxicity: Toxicology data has not been determined specifically for this product formulation
Data given below is for the active ingredient trifloxystrobin.
Acute oral LD₅₀ (rat): > 5000 mg/kg
Acute percutaneous LD₅₀ (rabbits): > 2000 mg/kg
Inhalation LC₅₀ for rats (whole body): > 4650 mg/m³

Ingestion: The formulated product may cause organ damage from repeated oral exposure at high doses.

Inhalation: Irritant. May cause irritation of mucous membranes. Slightly irritating (rabbit).
Avoid inhalation of spray mist while applying the product.

Sensitisation: Skin sensitiser (guinea pig). Wear skin protection.

Carcinogenicity: Not carcinogenic.

Mutagenicity: Not mutagenic.

Reproductive Effects: No adverse effects on reproduction

Teratogenicity: Not teratogenic.

12. Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects (9.1A). Avoid contamination of any water supply with product or empty container.
Ecotoxicological data has not been determined specifically for this formulated product. Data given below is for the active ingredient trifloxystrobin.

Environmental Fate: Dissipates rapidly from soil and surface water.



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Soil DT₅₀: 4.2 – 9.5 days.
No leaching potential.
In water, DT₅₀ 0.3 – 1 day. DT₉₀ 4 – 8 days

Acute Toxicity to Fish: Rainbow trout LC₅₀ (96 hour): 0.015 mg/litre
Bluegill sunfish LC₅₀ (96 hour): 0.054 mg/litre

Acute Toxicity Aquatic Organisms:

Daphnia LC₅₀ (48 hour): 0.016 mg/litre
Algae *Scenedesmus subspicatus* E_bC₅₀: 0.0053 mg/litre

Acute Toxicity Vertebrates (Birds):

Acute oral LD₅₀ bobwhite quail: > 2000 mg/kg
Acute oral LD₅₀ mallard duck: > 2250 mg/kg
Dietary LC₅₀ for quail and ducks: > 5050 ppm

Acute Toxicity to soil organisms (Worms):

LC₅₀ (14 d): >1000 mg/kg soil

Acute Toxicity to Terrestrial Invertebrates:

Honey bee oral LD₅₀: > 200 µg/bee
Honey bee contact LD₅₀: > 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.

14. Transport regulations

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

Rail /Road /Sea: UN Number: 3077
Class: 9
Packaging Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (Trifloxystrobin 50%)
Hazchem: 2Z
Segregation: Refer to the latest Land Transport Dangerous Goods Rule 45001
Sea transport may require additional segregation (Refer to NZS5433)



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15. Regulatory information

HSNO Approval Number: HSR000642
HSNO Controls: Refer to www.epa.govt.nz .
ACVM Approval: Registered pursuant to the ACVM Act 1997 No: P9147
ACVM Registration conditions: See: www.foodsafety.govt.nz

16. Other information

Abbreviations:

ACVM: Agricultural Chemicals and Veterinary Medicines Group.
CAS Number: Chemical Abstracts Service Number
EC₅₀: Median effective concentration
E_bC₅₀: Median effective concentration (biomass)
EEL: Environmental Exposure Limit
EPA: Environmental Protection Authority of New Zealand
HSNO: Hazardous Substances and New Organisms ACT 1966
LD₅₀: Lethal Dose 50% (Population)
LC₅₀: Lethal Concentration 50% (Population)
TEL: Tolerable Exposure Limit
WES: Workplace Exposure Standard

General:

Triplus is a fungicide for the control of black spot and powdery mildew in apples, black spot in pears, powdery mildew in winter squash and pumpkins, *Sclerotinia* in kiwifruit, brown rot in stonefruit (excluding cherries) and scab in citrus. 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.
