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Greenseal Ultra



Section 1: Identification

Product name: Greenseal Ultra

Other names:

Recommended use: Fungicide for the control of European Canker on pipfruit, silver

> leaf on pipfruit and summerfruit, Eutypa dieback on grape vines and for the treatment of pruning wounds on grapes, kiwifruit,

ornamentals, pipfruit and summerfruit.

PGG Wrightson Ltd Manufacturer/Importer details:

> 1 Robin Mann Place Christchurch Airport

PO Box 292, Christchurch 8140

Phone: 03 372 0890

24 hour emergency contact: Phone: 0800 10 22 76

National Poisons Centre: 0800 CHEMCALL (0800 243622)

0800 POISON (0800 764766)

Section 2: Hazard identification

Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2020 of the HSNO Act, 1996.

HSNO Approval: HSR100149

Hazardous classifications: Skin irritation Category 2, Eye irritation Category 2,

> Skin sensitisation Category 1, Reproductive toxicity Category 2, Specific target organ toxicity -repeated exposure Category 2, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1,

Hazardous to terrestrial vertebrates

Pictograms:



WARNING Signal word:

Hazard statements: H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or

repeated exposure. H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates.

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Prevention statements: 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 mist/vapours.

P264 Wash hands and face thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective clothing including waterproof gloves, eye

protection and overalls

P281 Use personal protective equipment as required.

Response statements: P302+P352 IF ON SKIN: Wash with plenty of soap and water.

> P333+P313 If skin irritation or rash occurs: Get medical attention. P362 Take off contaminated clothing and wash before re-use. P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical attention.

P308+P313 IF exposed or concerned: Get medical

advice/attention.

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.

Storage statement:

P405 Store locked up. Disposal statement:

P501 Dispose of product and containers in accordance with local

Regulations. See Section 13 for details.

Additional information: Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond

the application area.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

Ingredient	CAS No.	Proportion % w/w
Tebuconazole	107534-96-3	< 1*
Octhilinone	26530-20-1	< 2**
Propylene glycol	57-55-6	< 15
Ethylene glycol monobutyl ether	111-76-2	< 2
Other ingredients	Proprietary	< 60
Water	7732-18-5	to balance to 100

^{*} equivalent to 10 g/L tebuconazole

Section 4: First-aid measures

General advice: If medical advice is needed, have product container or label at

> hand. For advice contact National Poisons Centre 0800 POISON [0800 764 766] or a doctor. If exposed or concerned, or feeling

unwell, get advice.

Do NOT induce vomiting. Rinse mouth. Get medical attention. If Ingestion:

conscious, give 3-4 glasses of water to dilute stomach contents.

^{**}equivalent to 17.5 g/L octhilinone

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Inhalation: Remove person from exposure to fresh air and keep at rest in

position comfortable for breathing. Get medical advice if person

feels unwell.

Skin contact: Remove contaminated clothing and wash affected area

thoroughly with plenty of soap and water. If skin irritation or rash occurs get medical attention. Wash contaminated clothing before

Eye contact: Immediately rinse eyes with running water for several minutes.

Remove contact lenses, if present and easy to do so. Continue

rinsing. If eye irritation persists, get medical attention.

Emergency showers and eyewashes to be available in the First aid facilities:

immediate vicinity of any potential exposure.

Advice to doctor: Treat symptomatically.

Section 5: Fire-fighting measures

Flammability: Not flammable.

Appropriate extinguishing

Combustion products:

media:

Water spray, water fog, CO₂, foam or dry extinguisher.

Carbon dioxide and water. In case of incomplete combustion,

In case of fire wear full chemical resistant protective clothing and

carbon monoxide, hydrocarbons, aldehydes, ketones and acetic acid may be developed.

Special protective equipment

and precautions for fire-

fighters:

a self-contained breathing apparatus.

HAZCHEM code: 37

Section 6: Accidental release measures

Personal precautions: Wear appropriate protective clothing as described in Section 8.

Environmental precautions: Contain spillage. Prevent from entering waterways.

Procedure for clean up: Absorb spills with inert materials and place in appropriate labelled

waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely at an approved facility.

Section 7: Handling and storage

Safe handling: Read label before use. When mixing or applying wear protective

clothing such as waterproof gloves, overalls and eye protection.

Apply using only non-dispersive application methods. Do not eat, drink or smoke while using. Wash splashes off exposed skin or out of eyes immediately. Wash hands and face

thoroughly after use.

Keep out of reach of children. Store in original container, tightly Safe storage:

closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, feeds, seeds, fertilisers, insecticides, or fungicides

used for the protection of crops.

Section 8: Exposure controls/personal protection

Occupational exposure limits: Ingredient Form of exposure WES-TWA WES-STEL

Propylene glycol Vapour and 474 mg/m³ particulates (150 ppm) Particulates only 10 mg/m³

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Engineering controls: In a situation where vapours may be generated proper ventilation

must be provided.

Respiratory protection: Not required if used outdoors and in well-ventilated area.

Hand protection: Waterproof gloves.

Eye protection: Safety glasses with side shields or goggles. Skin protection: Protective clothing (overalls) and boots.

Section 9: Physical and chemical properties

(a) Appearance: Green viscous opaque liquid.

(b) Odour: Slight.

(c) Odour threshold: No data available.
 (d) pH: No data available.
 (e) Melting point/freezing No data available.

point:

(f) Initial boiling point and No data available.

boiling range:

(g) Flash point: Not flammable.(h) Flammability (solid, Not applicable.

gas):

(i) Upper/lower Not applicable.

flammability or explosive limits:

(j) Vapour pressure: No data available.
(k) Vapour density: No data available.
(l) Relative density: 1.06-1.08g/ml at 20°C
(m) Solubility: Dispersible in water.
(n) Partition coefficient: No data available.

n-octanol/water:

(o) Auto-ignition No data available.

temperature:

(p) Decomposition No data available.

temperature:

(q) Kinematic viscosity: 1000-15000 cP

Section 10: Stability and reactivity

Stability of the substance: Incompatible materials:

Stable under normal storage and handling conditions.

Strong oxidising/reducing agents.

Hazardous decomposition products:

Carbon dioxide, carbon monoxide, hydrocarbons, aldehydes,

ketones, and acetic acid.

Section 11: Toxicological information

Toxicity classifications determined by assessment of the

components in the formulated mixture.

(i) Acute toxicity: Not classified as acutely toxic if ingested, in contact with skin or

inhaled.

(ii) Aspiration hazard: Not classified as aspirant hazard

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(iii) Respiratory irritation: Not classified as respiratory irritant.

Skin corrosion/ (iv)

> irritation: Irritant.

(v) Serious eye damage/

> irritation: Serious eye irritant.

(vi) Respiratory or skin

> sensitisation: Contact sensitiser.

(vii) Germ cell

(viii)

Not classified. mutagenicity: Carcinogenicity: Not classified.

(ix) Reproductive toxicity: Tebuconazole identifed as may cause reproductive or

development effects.

(x) Specific organ toxicity: Tebuconazole identifed as may cause adverse effects to target

organs or systems through prolonged or repeated exposure.

Narcotic effects: Not classified. (xi) Other information. Not available. (xii)

Toxicological information for

active ingredients: Octhilinone -Oral LD₅₀ (rat): 550 mg/kg

Dermal LD₅₀ (rabbit): 690 mg/kg

Tebuconazole - Oral LD50 (mouse): 1615 mg/kg

Oral LD₅₀ (rat, male): 4000mg/kg Dermal LD₅₀ (rat): > 5000mg/kg

Section 12: Ecological information

Ecotoxicological classifications determined by assessment of the

components in the formulated mixture.

(a) Aquatic toxicity: Very toxic in the aquatic environment with long lasting effects.

(b) Soil environment: Not classified.

(c) Terrestrial vertebrate

toxicity: Harmful to terrestrial vertebrates.

(d) Terrestrial invertebrate

toxicity: Not classified.

(e) Persistence and

degradability: Not expected to rapidly degrade.

Tebuconazole - DT₅₀ (anaerobic): 866 days DT₅₀ (aerobic): 1386 days

(f) Potential to be bioaccumulative: No data to indicate bioaccumulation risk.

Product disperses in water.

(g) Mobility in soil:

Ecotoxicological information for

active ingredients:

Octhilinone -Rainbow trout LC₅₀ (96 hour): 0.047mg/l

Daphnia magna EC₅₀ (48 hour): 0.180 mg/l

Algae EC₅₀ (72 hour): 0.084mg/l

Northern bobwhite LD₅₀ 21days: 346mg/kg

Tebuconazole - Rainbow trout LC₅₀ (96 hour): 4.4mg/l

Daphnia magna EC₅₀ (48 hour): 4mg/l

Lemna gibba frond EC₅₀ (72 hour) 0.01444mg/L Bobwhite quail (acute oral) LD50: 1555mg/kg

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Section 13: Disposal considerations

Product disposal: Dispose of this product only by using according to the label or

through Agrecovery chemical disposal or similar approved service

or at an approved landfill.

Container disposal: Triple rinse empty container adding rinsate to the spray tank.

Recycle through Agrecovery if possible or appropriate recycling facility. Otherwise crush and bury in an approved landfill. Do not

use container for any other purpose.

Section 14: Transport information

UN number: 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S (contains tebuconazole 1%, Octhilinone 1.75%)

UN class: 9
Packing group: III
HAZCHEM: 3Z
Marine pollutant: Yes

This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more information.

Section 15: Regulatory information

HSNO: Approved substance under the HSNO Act 1996.

Substance approval number: HSR100149; Greenseal Ultra

Tolerable exposure limit: Not set.

HSNO controls: See www.epa.govt.nz

Additional controls: This substance must not be applied onto or into water.

Apply only via non-dispersive application methods.

ACVM: Registered under the Agricultural Compounds Veterinary

Medicines Act 1997.

Registration number: P8180

Conditions of registration: See www.foodsafety.govt.nz

Section 16: Other information

Date of issue: 20/04/2023

Reason for reissue: Product information review; change to GHS hazard statements

and following EPA review of classifications for tebuconazole

classifications.

Replaces: SDS issued 15/03/2019

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Information references: Supplier Safety Data Sheet

NZ EPA Approved hazardous substances database.

NZ EPA Chemical Classification and Information Database

(CCID)

Abbreviations: ACVM: Agricultural Chemicals and Veterinary Medicines Group

HSNO: Hazardous substances and New Organisms Act 1996

(HSNO Act)

EPA: Environmental Protection Authority of New Zealand

CAS Number: Chemical Abstracts Service Number

LD50: Lethal Dose 50% (Population)

LC50: Lethal Concentration 50% (Population)

WES-TWA: Workplace exposure standards - Time-weighted

average

WES-STEL: Workplace exposure standards - Short-term

exposure limit

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.