


Section 1: Identification

Product name:	Greenseal Ultra
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.
Manufacturer/Importer details:	PGG Wrightson Ltd 57 Waterloo Rd Hornby, Christchurch New Zealand Phone: 0800 10 22 76
24 hour emergency contact:	0800 CHEMCALL (0800 243622)
National Poison Centre:	0800 POISON (0800 764766)

Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996.
HSNO Approval:	HSR100149
Hazardous classification:	6.3A, 6.4A, 6.5B, 9.1B, 9.3C
	
Signal word:	WARNING
Hazard statements:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. H433 Harmful to terrestrial vertebrates.
Prevention statements:	P103 Read label before use. P264 Wash hands and face thoroughly after handling. P280 Wear protective clothing including waterproof gloves, eye protection and overalls P272 Contaminated work clothing should not be allowed out of the workplace. P261 Avoid breathing fumes. P273 Avoid release to the environment.
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.



	<p>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. P391 Collect spillage.</p>
Storage statement:	-
Disposal statement:	P501 Dispose of product and containers in accordance with local Regulations. See Section 13 for details.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion w/w</i>
Tebuconazole	107534-96-3	< 1%
Octhilinone	26530-20-1	< 2%
Ethylene glycol monobutyl ether	111-76-2	< 1.5%
Non-hazardous excipients	-	< 55.1%
Water	7732-18-5	To 100%

Section 4: First-aid measures

Ingestion:	Do not induce vomiting. Get medical attention. If conscious, give 3-4 glasses of water to dilute stomach contents.
Inhalation:	An unlikely route of exposure. Remove person from exposure to fresh air.
Skin contact:	Remove contaminated clothing and wash affected area thoroughly with plenty of soap and water. If skin irritation occurs get medical attention.
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.
First aid facilities:	Emergency showers and eyewashes to be available in the immediate vicinity of any potential exposure.
Advice to doctor:	Treat symptomatically.

Section 5: Fire-fighting measures

Flammability:	Not flammable.
Appropriate extinguishing media:	Water, water fog, CO ₂ , foam or dry extinguisher.
Combustion products:	CO ₂ and water. In case of incomplete combustion, carbon monoxide, hydrocarbons, aldehydes, ketones and acetic acid may be developed.



HAZCHEM code:	3Z
Section 6: Accidental release measures	
Personal precautions:	Wear appropriate protective clothing.
Environmental precautions:	Prevent material 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:	When mixing or applying wear protective clothing such as waterproof gloves, overalls and eye protection. 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.
Safe storage:	Store in original container, tightly 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:	Not set.
Engineering controls:	In the unlikely situation where vapours may be generated proper ventilation must be provided.
Respiratory protection:	Not required is adequate ventilation.
Hand protection:	Waterproof gloves.
Eye protection:	Safety glasses or goggles.
Skin protection:	Protective clothing and boots.
Section 9: Physical and chemical properties	
(a) Appearance:	Green viscous opaque liquid (paint).
(b) Odour:	Slight.
(c) Odour threshold:	No data available.
(d) pH:	No data available.
(e) Melting point/freezing point:	No data available.
(f) Initial boiling point and boiling range:	No data available.
(g) Flash point:	Not flammable.
(h) Flammability (solid, gas):	Not applicable.

(i)	Upper/lower flammability or explosive limits:	Not applicable.
(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: n-octanol/water:	No data available.
(o)	Auto-ignition temperature:	No data available.
(p)	Decomposition temperature:	No data available.
(q)	Kinematic viscosity:	1000-15000cP
Section 10: Stability and reactivity		
Stability of the substance:		Stable under normal storage and handling conditions.
Incompatible materials:		Strong oxidising/reducing agents.
Hazardous decomposition products:		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.
(ii)	Aspiration hazard:	Not classified as aspirant hazard
(iii)	Respiratory irritation:	Not classified as respiratory irritant.
(iv)	Skin corrosion/irritation:	Irritating to the skin.
(v)	Serious eye damage/irritation:	Irritating to the eye.
(vi)	Respiratory or skin sensitisation:	Contact sensitiser.
(vii)	Germ cell mutagenicity:	Not classified as a mutagen.
(viii)	Carcinogenicity:	Not classified as a carcinogen.
(ix)	Reproductive toxicity:	Not classified.
(x)	Specific organ toxicity:	Not classified.
(xi)	Narcotic effects:	Not classified.
Section 12: Ecological information		
Ecotoxicological classifications determined by assessment of the components in the formulated mixture.		

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(a)	Aquatic toxicity:	Toxic in the aquatic environment with long lasting effects.
(b)	Terrestrial vertebrate toxicity:	Harmful to terrestrial vertebrates.
(c)	Terrestrial invertebrate toxicity:	Not classified.
(d)	Persistence and degradability:	Tebuconazole - DT ₅₀ (anaerobic): 866 days DT ₅₀ (aerobic): 1386 days
(e)	Potential to be bioaccumulative:	No data.
(f)	Mobility in soil:	Not data.
Ecotoxicological information for active ingredients:		<p>Octhilinone - Rainbow trout LC₅₀ (96 hour): 0.047mg/l Daphnia EC₅₀ (48 hour): 0.180 mg/l Algae EC₅₀ (72 hour): 0.084mg/l Northern bobwhite LD₅₀: 346mg/kg</p> <p>Tebuconazole - Rainbow trout LC₅₀ (96 hour): 4.4mg/l Daphnia EC₅₀ (48 hour): 4mg/l Bobwhite quail (acute oral) LD₅₀: 1555mg/kg</p>
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 2%)
UN class:		9
Packing group:		III
Environmental hazards:		Marine pollutant.
<p>This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more information.</p>		
Section 15: Regulatory information		
HSNO:		Approved substance under the HSNO Act 1996.
HSNO 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 only.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	P8180
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	25/09/2018
Reason for reissue:	Updated regulations
Replaces:	SDS issued December 2017
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls 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.