

UNIQUE 50SC



Section 1: Identification

Product name:	UNIQUE 50SC
Other names:	Suspension concentrate containing 50 g/L uniconazole-p
Recommended use:	Plant growth regulator for avocados.
Manufacturer/Importer details:	PGG Wrightson Limited 1 Robin Mann Place Christchurch Airport Christchurch New Zealand Phone: 03 372 0800 or 0800 102276
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poisons Centre:	0800 POISON (0800 764 766)

Section 2: Hazard identification

HSNO Approval:	Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
Hazardous classification:	HSR100373 Specific target organ toxicity (repeated exposure) Category 2, Hazardous to the aquatic environment chronic Category 3.
Pictograms:	A GHS pictogram showing a black silhouette of a person with a starburst on their chest, enclosed in a red diamond border.
Signal word:	WARNING
Hazard statements:	H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long-lasting effects.
Prevention statements:	P103 Read label before use. P260 Do not breathe mist/vapours/spray. P273 Avoid release to the environment.
Response statements:	P314 Get medical advice if you feel unwell.
Storage statement/s:	Nil
Disposal statement/s:	P501 Dispose of product and containers in accordance with local Regulations. See section 13 for more details.
Additional label Requirements:	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:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion w/w</i>
Uniconazole-p	83657-17-4	4.8 – 5.0*
Other ingredients	Trade secret	balance
* label concentration 50 g/L		

Section 4: First-aid measures

First aid measures:	If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre on 0800 POISON [0800 764 766] or a doctor.
Inhalation:	Remove person to fresh air and keep at rest in a position comfortable for breathing until recovered. Get medical advice if person feels unwell.
Ingestion:	Rinse mouth. Get medical advice if person feels unwell.
Skin contact:	As per prevention and response statements Wash with soap and water. Get medical advice if irritation persists.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.

Section 5: Fire-fighting measures

Flammability:	Non-flammable. Not a fire or explosion hazard.
Appropriate extinguishing media:	Foam, dry powder, carbon dioxide (CO ₂).
Combustion products:	Smoke, oxides of carbon and other unidentified compounds.
Special protective equipment and precautions for fire-fighters:	Wear protective equipment including self-contained breathing apparatus (SCBA).
HAZCHEM code:	3Z

Section 6: Accidental release measures

Personal precautions:	Wear protective equipment; coveralls, boots, gloves, eye protection. Wear respiratory protection if there is a risk of contact with spray mist/aerosols.
Environmental precautions:	Contain spill. Prevent from entering waterways, drains, sewers.

UNIQUE 50SC



Notify local authorities if contamination of waterway occurs.									
Procedure for clean up:	Contain and recover liquid into labelled container for re-use or disposal. Absorb residue or small spills with suitable material, e.g. sand, vermiculite. Dispose of contaminated waste to approved landfill.								
Section 7: Handling and storage									
Safe handling:	Read label before use. Wear personal protective equipment. Use good personal hygiene practices. Remove protective equipment before rest or meal breaks. Wash hands.								
Safe storage:	Keep out of reach of children. Keep container tightly closed when not in use. Store in cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the latest version of NZS 8409 Management of Agrichemicals.								
Section 8: Exposure controls/personal protection									
Occupational exposure limits:	<table><tr><th><i>Ingredient</i></th><th><i>Exposure</i></th><th><i>Form</i></th><th><i>Ceiling</i></th></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>	<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>Ceiling</i>	-	-	-	-
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-	-	-	-						
Biological limit value:	None set as of WorkSafe’s 12 th edition of WES and BEI values, published November 2020.								
Engineering controls:	Use with adequate ventilation, i.e. outdoors.								
Respiratory protection:	Not required if used outdoors with adequate ventilation. If risk of inhalation, wear respirator fitted with suitable filter.								
Hand protection:	Waterproof gloves, e.g. PVC, nitrile.								
Eye protection:	Chemical goggles, safety glasses with side shields or face shield.								
Skin protection:	Chemical resistant coveralls and closed in boots.								
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.								
Personal Protection:	Further information on specific types of personal protective gear and related standards is available in Section 16.								
Section 9: Physical and chemical properties									
(a) Appearance:	Off white liquid suspension								
(b) Odour:	Characteristic, mild								
(c) Odour threshold:	Not available								
(d) pH:	7.0 – 9.0 (typical 8.1 as 1% aqueous)								
(e) Melting point/freezing point:	Not available								
(f) Initial boiling point and boiling range:	Not available								
(g) Flash point:	Not flammable								

UNIQUE 50SC



(h)	Flammability (solid, gas):	Not applicable
(i)	Upper/lower flammability or explosive limits:	Not applicable
(j)	Vapour pressure:	Not available
(k)	Vapour density:	Not available
(l)	Relative density:	1.02
(m)	Solubility:	Suspension in water
(n)	Partition coefficient: n-octanol/water:	Not available
(o)	Auto-ignition temperature:	Not available
(p)	Decomposition temperature:	Not available
(q)	Kinematic viscosity:	61 mPa at 100 s ⁻¹
(r)	Particle characteristics	Not applicable
Section 10: Stability and reactivity		
Stability of the substance:		Stable under normal conditions of storage and use.
Conditions to avoid:		Keep away from heat sources.
Incompatible materials:		Strong oxidising agents.
Hazardous decomposition products:		Not known to occur.
Section 11: Toxicological information		
		Toxicity classifications determined by assessment of the components in the formulated mixture.
(i)	Acute toxicity:	Not classified.
(ii)	Aspiration hazard:	Not classified.
(iii)	Respiratory irritation:	Not classified.
(iv)	Skin corrosion / irritation:	Not classified.
(v)	Serious eye damage / irritation:	Not classified.
(vi)	Respiratory or skin sensitisation:	Not classified.
(vii)	Germ cell mutagenicity:	Not classified.
(viii)	Carcinogenicity:	Not classified.
(ix)	Reproductive toxicity:	Not classified.
(x)	Specific organ toxicity:	Repeated or prolonged exposure may cause adverse effects.
(xi)	Narcotic effects:	Not classified.
Toxicological information -Active ingredient:		Oral LD ₅₀ (rat): 430 mg/kg bodyweight Dermal: LD ₅₀ : 2000 mg/kg bodyweight

UNIQUE 50SC



-Product	Inhalation: LC ₅₀ (4hr) 2.75 mg/L Oral LD ₅₀ (rat): >2000 mg/kg bodyweight Dermal: LD ₅₀ : >4000 mg/kg bodyweight Inhalation: LC ₅₀ (4hr) 2750 mg/L
Section 12: Ecological information	
(a) Aquatic toxicity: (b) Soil environment: (c) Terrestrial vertebrate toxicity: (d) Terrestrial invertebrate toxicity: (e) Persistence and degradability: (f) Potential to be bioaccumulative: (g) Mobility in soil:	Ecotoxicological classifications determined by assessment of the components in the formulated mixture. Harmful to aquatic life with long lasting effects. Not classified. Not classified. Not classified. Uniconazole does not degrade rapidly in soil. Soil DT ₅₀ : 100 days (typical) Not bioaccumulative Product forms suspension in water.
Ecotoxicological information: -Active	Rainbow trout LC ₅₀ (96h) 18.8 mg/L <i>Daphnia magna</i> LC ₅₀ (48h) 10 mg/L Earthworm LD ₅₀ (14 d) 1000 mg/kg soil <i>Apis mellifera</i> (honeybee) LD ₅₀ (contact) > 20 µg/bee
Section 13: Disposal considerations	
Product disposal: Container disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill. Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.
Section 14: Transport information	
UN number: UN proper shipping name: UN class: Packing group: Subsidiary risk: Environmental hazards: Special precautions:	Non-regulated - - III - - This product is classified as a non-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	

UNIQUE 50SC



HSNO:	Approved substance under the HSNO Act 1996.
HSNO approval number:	HSR100373
Tolerable exposure limit / environmental exposure limit:	None set
HSNO controls:	See www.epa.govt.nz
Additional controls:	Do not apply onto or into water. Do not apply more than 15 L product/ha, once a year. Apply only by ground-based application method.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	P9830
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	05/08/2021
Reason for reissue:	New product
Replaces:	Not applicable
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
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
Personal Protection Standards:	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715 , Protective Gloves: AS 2161 , Occupational Protective Clothing: AS/NZS 4501 , Industrial Eye Protection: AS1336 and AS/NZS 1337 , Occupational Protective Footwear: AS/NZS2210

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.