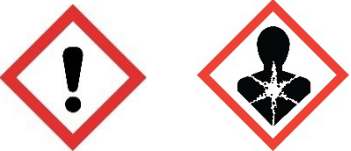


Section 1: Identification

Product name:	Avocet®
Other names:	Suspension concentrate containing 250g/L Paclobutrazol
Recommended use:	Growth regulator for cherries, apricots, peaches, nectarines, avocados (Haas), certain turf grasses and suppression of annual poa in turf.
Manufacturer/Importer details:	PGG Wrightson Limited 1 Robin Mann Place Christchurch Airport, 8053 PO Box 292, Christchurch 8140 Phone: 03 372 0890 or 0800 102 276
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 (Hazard Classification) Notice 2020 of the HSNO Act, 1996.
HSNO Approval:	HSR000779
Hazardous classification:	Acute oral toxicity Category 4, Eye irritation Category 2, Reproductive toxicity Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment chronic Category 3
Pictograms:	
Signal word:	WARNING
Hazard statements:	H302 Harmful if swallowed. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to the liver through prolonged or repeated exposure. H412 Harmful to aquatic life with long-lasting effects. H433 Harmful to terrestrial vertebrates.
Prevention statements:	P102 Keep out of reach of children. P103 Read label before use. P201 Obtain special instructions before use.

Response statements:	<p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe vapours or spray mist.</p> <p>P264 Wash exposed skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves, protective clothing and eye/face protection.</p> <p>P281 Use personal protective equipment as required.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice.</p> <p>P314 Get medical advice if you feel unwell.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell</p> <p>P330 Rinse mouth.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.</p> <p>P337 + P313 If eye irritation persists: Get medical advice.</p> <p>P391 Collect spillage.</p>
Storage statement:	P405 Store locked up.
Disposal statement:	P501 Dispose of product and containers in accordance with local regulations.
Additional Label Requirements:	<p>Do not apply into or onto water.</p> <p>Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.</p>

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>
Paclobutrazol	76738-62-0	24 -25
Other ingredients	Proprietary	<15
Water	7732-18-5	Balance

Section 4: First-aid measures

First aid measures:	For advice contact National Poisons Centre (phone New Zealand 0800 764 766) or a doctor. Have product label or Safety Data Sheet at hand.
Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Get immediate medical advice.
Skin contact:	Immediately take off contaminated clothing. Wash skin with soap and water. Get medical advice if you feel unwell or if irritation occurs.
Eye contact:	Hold eyelids apart and rinse the eye cautiously for at least 15 minutes. Remove contact lenses, if present and easy to do, continue rinsing. Contact a Poisons Centre or doctor for advice.

Inhalation:	Remove patient to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms contact a Poisons Centre or doctor immediately.
First aid facilities:	Provide eye baths and safety showers close to areas where splashing may occur.
Advice to doctor:	Treat symptomatically.
Section 5: Fire-fighting measures	
Flammability:	Non-flammable.
Appropriate extinguishing media:	Dry chemical, water spray (fog), foam or carbon dioxide for small fires. Use foam or water fog for large fires. Do not use water jet. Keep fire exposed containers cool by spraying with water.
Combustion products:	Oxides of carbon and nitrogen.
Special protective equipment and precautions for fire-fighters:	Self-contained breathing apparatus required.
HAZCHEM code:	2X
Section 6: Accidental release measures	
Personal precautions:	Use appropriate protective equipment; protective clothing (overalls), impervious gloves, face shield, boots.
Environmental precautions:	Contain and collect spillage. This substance is harmful to aquatic life with long lasting effects. Avoid contamination of any water supply with the substance or empty container.
Procedure for clean up:	Clear area of unnecessary personnel. Small spill: Contain and absorb clay granules, sand, or other absorbent material. Put into labelled container that can be sealed and disposed of to an approved landfill. Large spill: Contain and then pump as much as possible to an appropriate, labelled salvage container. Absorb the remaining liquid with clay granules, sand, or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Prevent runoff into water ways or drains. Collect spilt product and contaminated materials for disposal to an approved hazardous landfill or waste collection facility.
Section 7: Handling and storage	
Safe handling:	Read label before use. When mixing or applying wear protective clothing; waterproof gloves, overalls, rubber boots, 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 handling and before rest or meal breaks.

Safe storage:	Keep out of reach of children. Store in original container, tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, feeds, seeds, fertilisers. Store in accordance with the current version of NZS 8409 Management of Agrichemicals.
Section 8: Exposure controls/personal protection	
Occupational exposure limits:	None set as of WorkSafe's 14 th edition of WES and BEI values published November 2023. Note: It is recommended that airborne concentrations should be kept below 3 mg/m ³ for respirable particulates and 10 mg/m ³ for inhalable particulates.
Biological limit value	None set as of WorkSafe's 14 th edition of WES and BEI values published November 2023.
Engineering controls:	Not normally required for product being used outdoors and in well-ventilated areas. General (mechanical) room ventilation is considered satisfactory.
Respiratory protection:	Air respirator with particulate filter or self-contained breathing apparatus.
Hand protection:	Impervious acid resistant glove with minimum of 0.5 mm thickness, e.g. nitrile.
Eye protection:	Chemical goggles or face shield where splashes may occur.
Skin protection:	Waterproof hat, coat and trousers worn outside rubber 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/beige liquid suspension.
(b) Odour:	None
(c) Odour threshold:	No data available.
(d) pH:	7.0 – 9.0 (1% aqueous dilution).
(e) Melting point/freezing point:	No data available.
(f) Initial boiling point and boiling range:	100°C
(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:	c.a. 1.09
(m)	Solubility:	Forms suspension 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:	No data available.
(r)	Particle characteristics	Not applicable

Section 10: Stability and reactivity

Stability of the substance:	Stable under normal storage and handling conditions.
Conditions to avoid:	Excessive heat.
Incompatible materials:	Strong oxidising agents and acids.
Hazardous decomposition products:	Oxides of carbon and nitrogen may be emitted.

Section 11: Toxicological information

	<p>Toxicity classifications determined by assessment of the components in the formulated mixture.</p>
a)	Acute toxicity: Toxic if ingested.
b)	Aspiration hazard: Not classified as aspirant hazard.
c)	Respiratory irritation: Not classified as respiratory irritant.
d)	Skin corrosion / irritation: Not classified.
e)	Serious eye damage / irritation: Irritating to eyes.
f)	Respiratory or skin sensitisation: Not classified as respiratory or contact sensitizer.
g)	Germ cell mutagenicity: Not classified as mutagenic.
h)	Carcinogenicity: Not classified as carcinogenic.
i)	Reproductive toxicity: Suspected of damaging fertility or the unborn child.
j)	Specific organ toxicity: May cause damage to target organs (liver) or systems from prolonged or repeated exposure.
k)	Narcotic effects: Not classified.
l)	Other adverse effects: No information.
m)	Toxicological information for paclobutrazol (active):
	Oral LD ₅₀ (mouse): 400 - 540 mg/kg
	Oral LD ₅₀ (rat, male): >2000 mg/kg
	Oral LD ₅₀ (rat, female): 1336 mg/kg
	Dermal LD ₅₀ : >2000 mg/kg

<p>Inhalation LC₅₀ 4 hr (rat, male): >4.79mg/L Inhalation LC₅₀ 4 hr (rat, female): 3.13mg/L</p>	
<p>Section 12: Ecological information</p>	
<p>Ecotoxicological classifications determined by assessment of the components in the formulated mixture.</p>	
(a) Aquatic toxicity:	Harmful to aquatic life with long lasting effects
(b) Soil environment:	Not classified for soil ecotoxicity.
(c) Terrestrial vertebrate toxicity:	Harmful to terrestrial vertebrates.
(d) Terrestrial invertebrate toxicity:	Not classified.
(e) Persistence and degradability:	Persistent. Generally half-life is 6 to 12 months, <42 days in calcareous clay, <140 days in coarse, sandy loam.
(f) Potential to be bioaccumulative:	Not expected to be bioaccumulative. Log P = 3.2.
(g) Mobility in soil:	Product disperses in water.
(h) Other adverse effects:	No data available.
(i) Ecotoxicological information for paclobutrazol (active):	Bluegill sunfish LC ₅₀ (96 hour): 23.6 mg/L Rainbow trout LC ₅₀ (96 hour): 23.6 mg/L <i>Daphnia magna</i> EC ₅₀ (48 hour): 0.0059 mg/L Green algae (<i>Selenastrum capricornutum</i>) EC ₅₀ (72 hour): 41.5mg/L
<p>Section 13: Disposal considerations</p>	
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. Avoid contamination of any water supply or stream with product or empty container.
<p>Section 14: Transport information</p>	
UN number:	Not applicable.
UN proper shipping name:	Not applicable.
UN class:	Not applicable.
Sub-class:	Not applicable.
Packing group:	III
HAZCHEM:	2X
Marine pollutant:	Aquatic chronic Cat 3. Not Marine Pollutant according to IMDG.
Special precautions:	-
<p>Section 15: Regulatory information</p>	

HSNO:	Approved substance under the HSNO Act 1996.
Substance approval number:	HSR000779; Suspension concentrate containing 250 g/litre paclobutrazol.
Tolerable exposure limit:	Not set.
HSNO controls:	See www.epa.govt.nz
	Qualifications No
	Tracking: No
	Safety Data Sheet: Any quantity
	Restricted to workplace only: No
	Quantity that must be secured when unattended: -
	Fire extinguishers -
	Quantity for secondary containment and emergency response plan: 1000 L
	Quantity for signage: 1000 L
	Quantity for Location certificate -
	Records of use (3 kg or more applied to area within 24 hours) -
	Quantity that requires management in accordance with HSW HS Regulations Hazardous Substances (Packaging) Notice 2017; Clause 9 1000 L
	UN Pack Group III
Additional controls:	-
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
Registration number:	P009471
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	30/08/2024.
Reason for reissue:	Review and update of product information, company details.
Replaces:	SDS issued 18 March 202.
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances databases. NZ EPA Chemical Classification and Information Databases.
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.