


## Section 1: Identification

Product name:	Avocet
Other names:	Paclobutrazol 250g/L
Recommended use:	Growth regulator for cherries, apricots, peaches, nectarines, avocados (Haas), certain turf grasses and suppression of annual poa in turf.
Manufacturer/Importer details:	Agritrade 411 Blenheim Road Christchurch New Zealand  Phone: 03 341 4587
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:	HSR000822
Hazardous classification:	6.1D, 6.3B, 6.4A, 6.8B, 6.9B, 9.1C, 9.3C
Pictograms:	
Signal word:	<b>WARNING</b>
Hazard statements:	H302 Harmful if swallowed. H312 Harmful in contact with skin. H316 Causes mild skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs 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. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe vapours or spray mist. P264 Wash exposed skin thoroughly after handling.

Response statements:	<p>P270 Do not eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing should not be allowed out of the work place.</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 + P310 <b>IF SWALLOWED:</b> Immediately call a POISON CENTRE or doctor</p> <p>P330 Rinse mouth.</p> <p>P302 + P352 <b>IF ON SKIN:</b> Wash with plenty of soap and water.</p> <p>P312 Call a POISON CENTRE or doctor if you feel unwell.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P304 + P340 <b>IF INHALED:</b> Remove to fresh air and keep at rest in a position comfortable for breathing</p> <p>P312 Call a POISON CENTRE or doctor if you feel unwell.</p> <p>P332 + P313 If skin irritation occurs: Get medical attention.</p> <p>P305 + P351 + P338 <b>IF IN EYES:</b> 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>
Storage statement:	P391 Collect spillage.
Disposal statement:	<p>P405 Store locked up.</p> <p>P501 Dispose of product and containers in accordance with local regulations.</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/v</i>
Paclobutrazol	76738-62-0	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.

# Avocet

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:	3Z

## 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

## Section 8: Exposure controls/personal protection

Occupational exposure limits:	No WES or TEL values are set at this time. Note: It is recommended that airborne concentrations should be kept below 3 mg/m <sup>3</sup> for respirable particulates and 10 mg/m <sup>3</sup> for inhalable particulates.
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.

## 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:	1.09
(m)	Solubility:	Forms suspension in water.
(n)	Partition coefficient: n-octanol/water:	No data available.
(o)	Auto-ignition temperature:	No data available.

# Avocet

(p)	Decomposition temperature:	No data available.
(q)	Kinematic viscosity:	No data available.
<b>Section 10: Stability and reactivity</b>		
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.	
<b>Section 11: Toxicological information</b>		
Toxicity classifications determined by assessment of the components in the formulated mixture.		
a)	Acute toxicity:	Toxic if ingested, in contact with skin or inhaled.
b)	Aspiration hazard:	Not classified as aspirant hazard.
c)	Respiratory irritation:	Not classified as respiratory irritant.
d)	Skin corrosion / irritation:	Mild skin irritant.
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 system from prolonged or repeated exposure.
k)	Narcotic effects:	Not classified.
l)	Other adverse effects:	No information.
Toxicological information for paclobutrazol (active):	Oral LD <sub>50</sub> (mouse): 400 - 540 mg/kg Oral LD <sub>50</sub> (rat, male): >2000 mg/kg Oral LD <sub>50</sub> (rat, female): 1336 mg/kg Dermal LD <sub>50</sub> : >2000 mg/kg Inhalation LC <sub>50</sub> 4 hr (rat, male): >4.79mg/L Inhalation LC <sub>50</sub> 4 hr (rat, female): 3.13mg/L	
<b>Section 12: Ecological information</b>		
Ecotoxicological classifications determined by assessment of the components in the formulated mixture.		
(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.
Ecotoxicological information for paclobutrazol (active):	Bluegill sunfish LC <sub>50</sub> (96 hr): 23.6 mg/L Rainbow trout LC <sub>50</sub> (96 hr): 23.6 mg/L <i>Daphnia magna</i> EC <sub>50</sub> (48 hr): 0.0059 mg/L Green algae ( <i>Selenastrum capricornutum</i> ) EC <sub>50</sub> (72 hr): 41.5mg/L
<b>Section 13: Disposal considerations</b>	
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.
<b>Section 14: Transport information</b>	
UN number:	3082
UN proper shipping name:	ENVIRONMENTALLY HAZARODUS LIQUID, N.O.S (contains paclobutrazol 25%)
UN class:	9
Sub-class:	-
Packing group:	III
HAZCHEM:	3Z
Marine pollutant:	Yes.
Special precautions:	-
This product is classified as a Dangerous Good Class 9. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more information.	
<b>Section 15: Regulatory information</b>	
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 <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
Additional controls:	This substance must not be applied onto or into water.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
Registration number:	P009471
Conditions of registration:	See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a>
<b>Section 16: Other information</b>	
Date of issue:	15/03/2019
Reason for reissue:	Review of SDS and product information.
Replaces:	SDS issued 18 December 2018.
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 CAS Number: Chemical Abstracts Service Number EPA: Environmental Protection Authority of New Zealand HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) LD <sub>50</sub> : Lethal Dose 50% (Population) LC <sub>50</sub> : 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.