




## Avert 25WP

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	AVERT 25WP
<b>Product Code:</b>	7975083 (500g)
<b>Recommended Use:</b>	An insect growth regulator for control of porina caterpillar and clover flea in pasture.
<b>Restrictions of Use:</b>	Refer to Section 15
<b>Company Identification:</b>	Ravensdown Limited
<b>Address:</b>	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Phone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency Phone Number:</b>	111 - tell operator what service is needed: Fire, Ambulance or Police
<b>Date of SDS Preparation</b>	15 April 2024 v2

### Section 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

<b>EPA Approval No:</b>	HSR000695
<b>Pictograms:</b>	  
<b>Signal Word:</b>	Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective equipment as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
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 advice/attention.

Storage Code	Storage Statement
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None allocated	
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<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Dispose of according to Local Regulations or Authorities

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
diflubenzuron	35367-38-5	25%
Non-hazardous ingredients		75%

### Section 4: FIRST AID MEASURES

<b>Routes of Exposure:</b>	
<b>If in eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>If on skin:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected : Get medical advice/attention.
<b>If ingested:</b>	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
<b>If inhaled:</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms:</b>	
<b>Eyes:</b>	Causes serious eye irritation.
<b>Skin:</b>	Not applicable.
<b>Ingested:</b>	Not applicable.
<b>Inhaled:</b>	Not applicable.
<b>Chronic:</b>	May cause damage to organs through prolonged or repeated exposure
<b>Notes to Doctor:</b>	Treat symptomatically

### Section 5: FIRE FIGHTING MEASURES

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	During a fire, toxic fumes may be emitted.
<b>Suitable Extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Precautions for firefighters and special protective clothing</b>	Full protective clothing and self-contained breathing apparatus.
<b>HAZCHEM CODE</b>	<b>22</b>

### Section 6: ACCIDENTIAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

**Environmental precautions:**

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

**Methods and material for containment and cleaning up:**

Moisten to prevent dusting and carefully sweep up solids without generating dust. Contain liquid spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill and of according to Section 13.

### Section 7: HANDLING AND STORAGE

<b>Handling:</b>	<p>Read carefully and follow all instructions.</p> <p>Do not breathe dust.</p> <p>Wash hands thoroughly after handling.</p> <p>Avoid release to the environment.</p> <p>Wear protective equipment as detailed in Section 8.</p> <p>Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if applied where members of the public may be lawfully present, or where it is likely to enter air or water and leave that place.</p>
<b>Storage:</b>	<p>Store away from incompatible materials listed in Section 10.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser</p>

and seed.  
 Store in accordance with NZS 8409 Management of Agrichemicals  
 This product is subject to signage when stored in quantities of 100kg or more, either alone or in aggregate with substances of the same hazard classification. More than 100kg requires emergency response plans. For full details refer to NZS 8409 Management of Agrichemicals and HSWA Regulations.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA	STEL
	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14<sup>TH</sup> EDITION.

<b>Engineering Controls:</b>	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist.
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#### Personal Protection Equipment:



<b>Eyes:</b>	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles.
<b>Skin/Hands:</b>	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear waterproof gloves, cotton overalls buttoned to the neck and wrist and boots.
<b>Respiratory:</b>	Not required.
<b>General:</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Powder
<b>Colour</b>	White to yellow
<b>Odour</b>	Practically odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	approx 8.0 (10g/litre)
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Density</b>	0.3g/cm <sup>3</sup>
<b>Specific Gravity</b>	Not available
<b>Bulk Density</b>	Not available
<b>Water Solubility</b>	Disperses in water
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available
<b>Other information</b>	(WP) Wettable Powder

## Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
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<b>Possibility of hazardous reactions</b>	Not available.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Avoid contact with strong acids, alkalis and oxidizing agents.
<b>Hazardous Decomposition Products</b>	None known. Refer to Section 5.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Effects:

<b>Swallowed</b>	Not applicable. LD <sub>50</sub> (rat) >5000mg/kg
<b>Dermal</b>	Not applicable. LD <sub>50</sub> (rabbit) >2000mg/kg
<b>Inhalation</b>	Not applicable. LC <sub>50</sub> (rat) >2490 mg/m <sup>3</sup>
<b>Eye</b>	Causes serious eye irritation.
<b>Skin</b>	Not applicable.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	May causes damage to organs through repeated or prolonged exposure. Long term animal feeding studies on diflubenzuron have found an increase in liver and spleen size and reversible effects on blood chemistry.

## Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

### Product:

<b>Persistence and degradability/Mobility</b>	Diflubenzuron is strongly absorbed by soil/humic acid complex and is virtually immobile in the soil. It is rapidly degraded in the soil, DT50 <7 days.
<b>Bioaccumulation</b>	No data available.
<b>Other adverse effects</b>	Avoid unintended release into streams and waterways.

### Ecotoxicity:

#### Acute Toxicity (crustaceans)

LC<sub>50</sub> (48 hr) Daphnia magna = 0.0037mg/L

#### Acute Toxicity (fish)

LC<sub>50</sub> (rainbow trout) (96hr) >65mg/l

LC<sub>50</sub> (minnow) (96hr)>0.2mg/l

#### Very toxic to aquatic organisms

#### Acute Toxicity (birds)

LD<sub>50</sub> (mallard duck) >5000mg/kg


#### Non-toxic to birds

#### Acute Toxicity (bees)

LD<sub>50</sub> >100ug/bee

#### Non-toxic to bees

## Section 13: DISPOSAL INFORMATION

<b>Disposal Method:</b>	Triple rinse container and add rinsate to the spray tank where practical to do so. Dispose of product only by using in accordance with label directions, or through Agrecovery Chemical Recovery Service or alternative approved programs.
<b>Container Disposal:</b>	Ensure packaging is completely empty, triple rinse where practical to do so. Recycle any packaging where possible through an approved program. Otherwise crush and bury in a suitable landfill or other approved facility. Do not burn. Do not use container for any other purpose.
	
<b>Precautions or methods to avoid:</b>	Do not allow product or empty container to contaminate any waterway.

## Section 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020



### Road, Rail, Sea and Air Transport

<b>UN No</b>	3077
<b>Class - Primary</b>	9
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIFLUBENZURON 25%)
<b>Marine Pollutant</b>	Yes
<b>Special Provisions</b>	If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG. Additional Information: Do not carry more than 3kg of Ravensdown Avert 25WP on a passenger service vehicle

## Section 15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000695

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100L kg
Emergency Response Plan (Schedule 5)	100 kg
Secondary Containment (Schedule 5)	100 kg
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A -	The substance must not be applied onto or into water.
<b>ACVM Act and Regulations</b>	
See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions	<b>P8356</b>

## Section 16: OTHER INFORMATION

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

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Please contact Ravensdown, if further information is required.

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