

**HARMFUL – KEEP OUT OF REACH OF CHILDREN
ECOTOXIC**



Herbicide

VALIANT 100

**A selective herbicide for control
of grass weeds in certain broadleaf
crops, forestry, orchards, nurseries,
non-crop areas and white clover**



ACTIVE INGREDIENT: Contains 96.8g/litre haloxyfop-P present as the methyl ester in the form of an emulsifiable concentrate.

Registrant:
Ravensdown Fertiliser Co-operative Ltd
Level 1, 32 Oxford Terrace
Christchurch, New Zealand
Telephone: 03 353 4600
Facsimile: 03 353 4625

Batch:
D.O.M:

NET CONTENTS:
5 LITRES

READ LABEL CAREFULLY BEFORE USING VALIANT 100

This product must not be used for any purpose, or in any manner, contrary to the label unless authorized under appropriate legislation.

HAZARD CLASSIFICATION: 6.1E, 6.4A, 6.9B, 9.1B

APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner or used by a commercial contractor.

TOXICITY

Harmful - May be harmful if swallowed, inhaled or absorbed through the skin. May cause skin or eye irritation. May cause organ damage from repeated oral exposure at high doses.

ECOTOXICITY

Toxic to aquatic organisms with long lasting effects. Avoid contamination of any water supply with chemical or empty container.

HANDLING PRECAUTIONS

STORAGE

Keep out of reach of children.

Store in accordance with NZS 8409 Management of Agrichemicals.

Store in original container tightly closed in a locked, dry, cool, well ventilated area away from sources of heat and ignition, foodstuffs, fertilizers and seeds. DO NOT store this product with Class 1, 2, 3.2, 4 or 5 substances.

Stores containing 1000L of Valiant 100 are subject to signage and secondary containment. More than 1000L require emergency response plans.

PERSONAL PROTECTION

Avoid contact with skin, eyes and inhalation of spray mist.

When handling wear protective clothing such as chemical resistant gloves and boots, eye protection and overalls.

Wash splashes of concentrate from skin and eyes immediately.

Remove protective clothing and wash hands and face thoroughly before meals and after work.

Do not eat, drink or smoke while using.

EQUIPMENT

Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use.

RECORD KEEPING

Records of use as described in NZS 8409 Management of Agrichemicals must be kept.

DISPOSAL

Triple rinse container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for disposal. Otherwise crush or puncture and bury in an approved landfill. Do not burn container. Do not use container for any other purpose. Dispose of product only by using according to label directions or dispose of safely at a managed landfill.

FIRST AID

If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water. If inhaled, move the patient to fresh air immediately. Begin artificial respiration if breathing has stopped.

SPILLAGE

In case of spillage, extinguish all ignition sources. Wear appropriate protective clothing and prevent material from entering waterways. Exclude non-essential people from the area. Prevent material coming into contact with Class 1, 2, 3.2, 4 or 5 substances. Contain liquid spills and absorb with inert material such as soil or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

EMERGENCY RESPONSE

In transport emergency call 111, Police or Fire Brigade. For 24hr specialist advice in an emergency only call 0800 CHEMCALL (0800 243 622).

SAFETY DATA SHEET

If additional safety information is required, refer to the Safety Data Sheet. For a copy contact the customer centre on 0800 100 123.

TRANSPORT

To be transported only in the original sealed container. Maximum volume permitted on a public passenger service is 1L.

Registered Pursuant to the ACVM Act 1997, P8433. See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, Code: HSR002431. See www.erna.govt.nz for approval controls.

Agrecovery is available on HDPE containers of 60 litres or less only.



Ravensdown

PHONE 0800 100 123 FAX 0800 100 118
24 hours, 7 days



AGRECOVERY

GENERAL DIRECTIONS

Before opening, carefully read warning statement, precautions instructions, first aid instructions and directions for use.

Valiant 100 is taken up by the foliage and translocates to all parts of the target plant. Growth ceases almost immediately but symptoms are slow to appear, with plant death taking up to 4 weeks.

Valiant 100 will not control broadleaf weeds or sedges.

APPLICATION

Valiant 100 may be applied using conventional ground or aerial equipment

Aerial: Use 100-300 litres of water per hectare applied as a coarse quality spray.

Boom: Use a minimum 200 litres of water per hectare applied as a medium quality spray.

Handgun: Apply as a wetting spray to achieve full coverage of the plant. Use a No.4 tip at 500-2000kPa to deliver 1000-1500 litres of water per hectare.

Knapsack: Apply as a wetting spray to achieve full coverage of the plant using at least 500 litres of water per hectare.

SPRAYING OIL

Use Valiant 100 with a spraying oil such as Collaborate to optimise grass weed control. Apply at 500ml per 100 litres of water. DO

NOT use spray oil when applying to peas, lentils, nursery plants and when used in mixture with Multiple and Terbafla.

MIXING

Mix required quantity in spray tank partly filled with water and maintain agitation through filling and spraying. When appropriate, spray oil such as Collaborate should be added once Valiant 100 has been thoroughly mixed. When tank mixing with a compatible herbicide these should be thoroughly mixed and dispersed before Valiant 100 is added to the tank.

COMPATIBILITY

Valiant 100 may be used in mixture with Ravensdown Atratec, Simaflo, Terbafla and Multiple.

SPRAYER DECONTAMINATION

Always wash tank and flush equipment thoroughly with clean water after use. To avoid subsequent injury to sensitive crops, immediately after spraying thoroughly remove all traces of Valiant 100 from mixing and spraying equipment as follows: DO NOT use chlorine based cleaners.

1. Drain tank, then flush tank, booms and hoses with clean water.
2. Quarter fill the tank with clean water and add 500g of an alkali detergent per 100 litres of water. Circulate through the system for at least 15 minutes with agitation then drain.
3. Drain the whole system.
4. Nozzles and filters should be removed and cleaned separately.
5. Finally, rinse tank thoroughly with clean water, flush through hoses and boom and allow to drain.

SHELF LIFE

When stored appropriately this product should show no significant degradation for two years from the date of manufacture.

Contact your supplier for further information about the use of any product that is older than this.

SOIL RESIDUES

DO NOT plant cereals, maize or grass crops within 12 weeks of treatment

RAINFALL

Valiant 100 is rainfast one hour post application.

WITHHOLDING PERIODS

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.

Peas, Lentils: DO NOT apply later than flowering

Asparagus: DO NOT apply during the cutting season

Onions: DO NOT apply within 5 weeks of harvest

WARRANTY AND LIMITATION

IMPORTANT: Read this notice before opening the container.

The registrant warrants that when packed the active ingredient of this product is as specified on this label within accepted analytical tolerances. The registrant gives only those other warranties that are required by law in relation to this product and limits its liability to the cost paid by the claimant for the product. The registrant declines all liability for damage resulting from the handling, storage or use of this product. The user bears the risk from the handling, storage or use of this product. The registrant is not liable for any use of this product which is contrary to the label directions given or any Act or Regulation.

CROPS AND SITUATIONS

Asparagus	Use in mixture with a spray oil, after the final cut
Clover, Lucerne	Use in mixture with a spray oil
Citrus, Pipfruit	Use in mixture with a spray oil as a directed spray around the base of the tree. Avoid contact with the fruit
Forestry Tree Release	May be applied over forestry species including radiata pine and eucalyptus species. Ravensdown Atratec, Simaflo, Terbaflor and Multiple may be added to control broadleaf species in radiata pine. To control broadleaf weeds in eucalyptus species, Multiple may be added.
Onions	Use in mixture with a spray oil. DO NOT exceed more than 1.5L per hectare.
Peas, Lentils	DO NOT mix with spray oil. DO NOT exceed more than 1.5L per hectare
Tree Nurseries	DO NOT mix with spray oil. Valiant 100 may be applied over seedling radiata pine, eucalyptus, arcacia, causuarina and other seedling plantation and ornamental tree species. Where there is no previous experience, apply over a few plants before treating larger areas. Consult with your local agrochemical specialist.

RECOMMENDATIONS

Chewing fescue and hair grass are not controlled at the rates listed below

Grass weeds	Boom spray and aerial	Handgun ml per 100L water	Knapsack ml per 10L water	Critical comments
Annual grass weeds: Annual ryegrass, Summer grass, Barnyard grass, Bristle grass, Volunteer cereals	0.6L/ha	-	12.5	Use with spray oil when weeds are at an advanced growth stage, slow growing or under stress.
Perennial ryegrass	1.25-2.5L/ha	250	25	For broadcast application use the low rate with the addition of spray oil or the higher rate without oil. Use the high rate with the addition of spray oil for perennial ryegrass at an advanced growth stage, slow growing or under stress.
Annual Poa	1.5L/ha	300	30	Use with spray oil when weeds are at an advanced stage, slow growing or under stress.
Cocks foot, Prairie grass, Yorkshire fog, Sweet vernal, Soft brome (goosegrass)	1.25-2.5L/ha	250	25	Use the high rate for grass weeds at an advanced growth stage, slow growing or under stress.
Cultivated couch	1.25-2.5L/ha	-	-	Use the low rate on young or actively growing, regenerated couch after extensive cultivation has broken roots into small pieces. Use the high rate on tillering couch. Use the low rate for suppression and the high rate for longer term control.
Sod bound couch, Mercer grass, Browntop, Ratstail, Indian doab, Kikuyu, Paspalum	3.75-5L/ha	375	60	Use the high rate for grass weeds at an advanced growth stage, slow growing or under stress. Use the high rate for sod bound couch. For suppression of these weeds in Lucerne use a rate of 2.5L per hectare
Wild Oat	0.5L/ha	-	12.5	Use with spray oil when weeds are at an advanced growth stage, slow growing or under stress.
Pampas grass	7.5L/ha	500	150	For best results treat plants less than 1m high
African feather grass				Repeat application may be required

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