

WARNING
Not for use in home gardens



Versatill™

PowerFlo™

HERBICIDE

ACTIVE INGREDIENT:

Contains 600g/litre clopyralid as the dimethylammonium salt, in the form of a soluble concentrate.

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| GROUP | 4 | HERBICIDE |
|-------|----------|-----------|

CONTROLS A RANGE OF BROADLEAF WEEDS IN AMENITY SITUATIONS, NON-CROP AREAS, TREE CROPS, CERTAIN ARABLE CROPS, PASTURES, FORESTS AND CONSERVATION TILLAGE.

READ THE LABEL COMPLETELY BEFORE USE.



NET CONTENTS: 1, 5, 10, 20 L

Corteva Agriscience New Zealand Limited

Private Bag 2017

New Plymouth 4342

www.corteva.co.nz

Telephone: 0800 803 939

INFORMATION WITHIN THIS BOX IS NOT PART OF THE LABEL
Versatill™ PowerFlo™ Herbicide 18th February 2022

WARNING



Hazardous to soil organisms
Hazardous to terrestrial vertebrates
Hazardous to the aquatic environment (chronic) Category 3

QUALIFICATION REQUIREMENTS

Persons mixing, loading, applying, or otherwise handling Versatill™ PowerFlo™ must meet the qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.

RECORD KEEPING

Records of use, as described in the EPA Hazardous Substances (Hazardous Property Control) Notice 2017 and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept when any quantity is being used in a place where members of the public may be present, or where the substance may enter air or water and leave the place.

ENVIRONMENTAL HAZARDS

Hazardous to aquatic life with long lasting effects. Avoid release to the environment. DO NOT apply directly into or onto water.

Hazardous to terrestrial vertebrates. DO NOT allow animals or birds access to the undiluted material or unused spray mix.

Hazardous to soil organisms.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Selective herbicide - very toxic to some plant species. Some plants may be damaged or killed by contact with this product. DO NOT allow drift outside the target area. Decontaminate equipment before use on sensitive plants (see Application Methods section). Use only according to label directions.

- **DO NOT use for treating turf that will be mown and the clippings used for making compost; or made available for collection for, or deposited at, a municipal green waste recycling depot.**
- **DO NOT add treated plants to compost heaps or use as mulch within 12 months of treatment.**
- **DO NOT use treated plant material to make mushroom substrate.**

HANDLING PRECAUTIONS

EQUIPMENT

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the Disposal instructions below.

STORAGE

Store in the original container, tightly closed and in a locked, dry, cool, well ventilated area, well away from foodstuffs.

Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing more than 100 L of Versatill™ PowerFlo™ Herbicide (or substances of the same hazard class) require signage and more than 1000 L require bunding. See the Health and Safety at Work (Hazardous Substances) Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS 8409) for further information.

PERSONAL PROTECTION

When opening the container, preparing the product for use and applying the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length chemical resistant gloves, and a face shield or goggles with a disposable dust and mist face mask covering mouth and nose. Wash hands after use. After each day's use wash gloves and contaminated clothing.

SPILLAGE

DO NOT touch or walk through spilled material. Wear the protective equipment recommended above. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. **Small spills/leaks:** Absorb small spills with a proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. **Large spills/leaks:** Dam the area off and report them to Corteva Agriscience Emergency Services at 0800 844 455.

DISPOSAL

Triple rinse empty containers and add rinsate to spray tank. Triple rinsed 1, 5, 10 and 20 L containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have an intact legible label may be taken to an Agrecovery collection site. Otherwise crush or puncture and bury in a suitably approved landfill. DO NOT burn empty containers.

Dispose of equipment cleaning water onto ground away from susceptible crops and plants.

DO NOT dispose of this product, spray mix, or equipment cleaning water down drains or sewers.

FIRST AID

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

SAFETY DATA SHEET

A Safety Data Sheet is available from Corteva Agriscience on request. Call Customer Service Toll Free on 0800 803 939 or visit www.corteva.co.nz

TRANSPORT

No restriction on the volume that may be carried on a passenger service vehicle.

NOTICE

Important: You **must** read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

Warning: This product is subject to controls and could be hazardous if handled incorrectly. The **user is responsible** for ensuring that the handling of this product is in accordance with the law (including the *Hazardous Substances and New Organisms Act 1996* and the *Agricultural Compounds and Veterinary Medicines Act 1997*) and with the directions provided. The Registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

Further information regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand (www.epa.govt.nz) or the Ministry for Primary Industries (MPI) (www.foodsafety.govt.nz).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

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| Registered to: Corteva Agriscience New Zealand Limited Private Bag 2017 New Plymouth 4342 Telephone 0800 803 939 www.corteva.co.nz | EMERGENCY RESPONSE (All hours) Ring from anywhere in New Zealand 0800 844 455 Or Globally +64 6 751 2407 | IN A TRANSPORT EMERGENCY DIAL 111 FOR POLICE OR FIRE |
|---|--|---|

Registered pursuant to the ACVM Act 1997, No P8801.
See <http://www.foodsafety.govt.nz> for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR100844
See www.epa.govt.nz for approval controls.

Date of Manufacture:

Batch No.

Barcode

DIRECTIONS FOR USE

MIXING INSTRUCTIONS

The following order should be followed:

1. Quarter fill the spray tank and commence agitation.
2. Add any wettable powders or dry flowable formulations with continuous agitation. Ensure products are completely dissolved or suspended.
3. Add accurately measured volume of Versatill™ PowerFlo™.
4. Add water to half fill the spray tank.

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5. Add emulsifiable concentrates including selective grass herbicides or other broadleaf herbicides.
6. Add water to three quarters fill the spray tank.
7. Add Uptake™ Spraying Oil if required.
8. If other adjuvants or a wetting agent are to be used, add these according to their label.
9. Add water to bring to the final spray volume.

Only mix sufficient spray solution for immediate use and avoid storing.

COMPATIBILITY

Versatill™ PowerFlo™ is compatible with most commonly used herbicides and cereal fungicides/insecticides.

APPLICATION

Versatill™ PowerFlo™ should be applied using conventional ground or aircraft spraying equipment. Flush equipment thoroughly with clean water after use. **DECONTAMINATE** before using on plants that are sensitive to Versatill™ PowerFlo™. Crops susceptible to Versatill™ PowerFlo™ include, but are not limited to: clovers, fruit trees, legumes, ornamentals, potatoes, tomatoes, vegetables, and vine crops.

Aerial spraying: Use 200-400 L/ha water applied as a coarse quality spray as defined by British Crop Protection Council (BCPC) system or the American Society of Agricultural and Biological Engineers (ASABE S572). Apply with a calibrated aircraft using the half overlap opposite pass flying techniques.

Boom spraying: Use up to 300 L/ha water applied as a medium quality spray as defined by the BCPC system or the ASABE S572 standard.

'Carpet' type weed wipers: Follow the rotary weed wiper manufacturer's operating instructions to apply the herbicide mix. Ensure the wiper remains saturated while in use. Two passes in opposite directions are recommended. Drain and wash the wiper with water immediately after use.

High Volume Gun Applications: Ensure thorough coverage of all weeds using a No. 6 tip or similar at 1000-2000 kPa.

Mistblower: Follow the manufacturer's instructions and ensure thorough coverage.

Knapsack Applications: When using a knapsack for broadcast application use at least 400 L of spray mix/ha. For spot treatment ensure thorough coverage.

IMPORTANT: In order to select the appropriate nozzles for the required spray quality, and to operate the equipment to minimize spray drift, this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

RAINFASTNESS

DO NOT spray Versatill™ PowerFlo™ herbicide if rain is likely within 3 hours.

CLEANING OF SPRAY EQUIPMENT

Rinsing

After using Versatill™ PowerFlo™:

- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate the water through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources.

Decontamination

Before using equipment with other products or on plants sensitive to Versatill™ PowerFlo™:

- Quarter fill the tank and add a standard alkali-based laundry detergent at 500 g (or mL)/100 L water and circulate throughout the entire system for at least 15 minutes. If using a concentrated laundry detergent use 250 g (or mL)/100 L water. Do not use chlorine-based cleaners.
- Drain the whole system. Remove filters and nozzles and clean them separately.
- Finally, flush the system with clean water and allow to drain.

Cleaning water should be discharged onto a designated disposal area, or onto unused land away from desirable plants and water sources.

ANIMAL SAFETY

Poisonous plants may become more palatable after spraying. If concerned that stock may be affected, stock should be kept away from the area until the plants have died down.

WITHHOLDING PERIODS

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

- No withholding period is required when used as directed, except for asparagus.
- DO NOT apply within 3 days of cutting asparagus (i.e. apply up to 3 days before cutting).

RESISTANCE MANAGEMENT

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|-------|---|-----------|
| GROUP | 4 | HERBICIDE |
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Versatill™ PowerFlo™ is a pyridine carboxylate herbicide (Group 4) which has an auxin mimic mode of action. Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximise the effectiveness of herbicides, product containing alternate modes of action should be used in the spray program. Consult <http://resistance.nzpps.org/> for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

CROP ESTABLISHMENT

Brassicas, maize, cereal and ryegrass crops may be drilled any time after application of Versatill™ PowerFlo™.

CAUTION:

DO NOT plant susceptible crops (clover, peas, beans, potatoes, tomatoes, carrots, cucurbits) within 12 weeks of applying up to 0.25 litres/ha of Versatill™ PowerFlo™. Where more than 0.25 L/ha is applied, DO NOT plant susceptible crops within 6 - 12 months of treatment without sowing a small area first to check soil residues.

GENERAL INFORMATION

Versatill™ PowerFlo™ is selective to a wide range of crops, but will damage legumes, including clovers and *Compositae* species (daisy family). At 50 mL/ha clovers in pasture may be severely suppressed for 2-6 months. Above 50 mL/ha, clovers may be removed from the sward.

SPORTS GROUNDS, GOLF COURSES (and other non-residential amenity situations), and NON- CROP AREAS

| WEEDS | RATE | | | COMMENTS |
|---|--------------------|--------------------------|---------------------|---|
| | BROADCAST mL/ha | SPOT SPRAY | | |
| | | High Volume mL /100 L | Knapsack mL/10 L | |
| Clover | 350 | 35 | 8.5 | Apply to actively growing plants. |
| Californian thistle | 500 | 50 | 12.5 | Apply from rosette to early flower. Retreatment may be required. |
| Bathurst burr, Daisy, Hawkesbeard, Hawkbit, Medics, Onhunga weed, Oxeye daisy, Narrow-leaved plantain, Thistles (annual and biennial). | 500 | 50 | 12.5 | Apply to actively growing plants. |
| Yarrow | 500 | 50 | 12.5 | Apply to actively growing foliage. Matted mature plants may need more than 1 application. |
| Catsear, Fireweed | 750 | 75 | 17.5 | Apply to actively growing plants. |
| Ragwort, Sow thistle, Lotus. | 1000 | 100 | 25 | Apply to actively growing rosettes. |
| Cape daisy | 500 - 1000 | 100 | 25 | Apply to actively growing rosettes. Use low rate on seedlings. |

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| Hemlock | Not recommended | 50 | 12.5 | Apply to actively growing plants. |
| Lupin | Not recommended | 100 | 25 | Apply to actively growing plants. |
| Broom, Gorse | Not recommended | 250 | 62.5 | Apply to actively growing plants Oct-Jan. Add either Pulse ^{®1} or Slikka ^{®1} penetrants to improve weed control. |
| Old man's beard | 6.0 – 12.5 L/ha | 250 | 62.5 | |

CAUTION: DO NOT ADD TREATED PLANTS TO COMPOST HEAPS OR USE AS MULCH WITHIN 12 MONTHS OF TREATMENT.

| SITUATION | RATE mL /ha | COMMENTS |
|-------------------------------------|-------------|--|
| SHELTER AND ORNAMENTAL TREES | 500 - 1000 | Apply as a directed spray. Use rates as for amenity areas. Shelter trees such as conifers, willows, poplars, <i>Casuarina</i> , <i>Cryptomeria</i> and <i>Eucalyptus</i> are tolerant. Many other trees and shrubs are also tolerant. Consult your Corteva Agriscience distributor for advice. If tolerance is not known, treat only a few plants to gain experience. DO NOT apply to legumes or <i>Compositae</i> . |

CROPS and PASTURES

| SITUATION | RATE mL /ha | COMMENTS |
|---|-------------------------------|--|
| ASPARAGUS: (Established beds only). To control Californian thistle. Yarrow, clover and thistles. Pre-cutting: During cutting: Post-harvest: | 250 – 500 250 250 – 500 | Apply up to 3 days before cutting. DO NOT cut within 3 days of treatment. Apply over spears. Use as a directed application if spears are opening or ferns are present. CAUTION: Some damage may occur if treatment is made over open spears or mature fronds. |
| BEETS: FODDER AND SUGAR BEETS for the control of Californian thistle and yarrow. | 250 – 500 | Apply after the 2 true leaf stage of the crop and before bulbous root formation. Versatill™ PowerFlo™ may be mixed with Betanal ^{®1} Forte. |
| FIELD BRASSICAS for the control of Californian and other thistles and yarrow. | 250 – 500 | Apply after the 2 true leaf stage of the crop and before it closes over. |
| CEREALS: For the control of Californian thistle and yarrow. | 150 – 500 | Apply after the 2 true leaf stage of the crop and before the 2-node stage. To improve the spectrum of weeds controlled, Versatill™ PowerFlo™ may be tank mixed with Maestro™ or other cereal |

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| For control of volunteer potatoes. | 500 | herbicides, and should be applied at the timing recommended for these herbicides. CAUTION: DO NOT use straw from Versatill™ PowerFlo™ treated crops for mushroom substrate, compost or mulch. Apply after the 2 true leaf stage of crop and before the 2-node stage. For volunteer potatoes, apply after full potato emergence but before tuber formation. |
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| SITUATION | RATE | COMMENTS |
|--|--|---|
| FORESTRY: (Radiata pine) | 5 L /ha in mixture with Grazon™ at 1 L /ha | Apply to release trees from gorse, broom and wattles. Add either Pulse® ¹ or Slikka® ¹ penetrants to improve weed control. See specific instructions for spot spraying in Application Methods above. Temporary light tree damage, in the form of distortion, may occur particularly where trees are well above competing weeds. To suppress weeds and allow the trees to compete, apply to gorse and broom after flowering and during soft spring growth. Best results are obtained from treating gorse up to 1 metre high. For control of wattle, best results are achieved from treating actively growing plants less than two (2) metres tall. Good control of <i>Acacia dealbata</i> (silver wattle) and <i>Albizia lophantha</i> (brush wattle) is achieved. <i>Acacia decurrens</i> (green wattle) is NOT controlled. |
| | Hand gun: 250 mL /100 L | Apply to full coverage through a No. 6 – 8 tip at 1000 – 2500 kPa. Add either Pulse® ¹ or Slikka® ¹ penetrants to improve weed control. |
| | Mistblower: 20 mL /L or 100 mL /L ULV | For ULV attachment use the No.3 or 4 hole. Add either Pulse® ¹ or Slikka® ¹ penetrants to improve weed control. |
| MAIZE AND SWEETCORN: For the control of Californian thistle, yarrow and Bathurst burr. For control of volunteer potatoes. | 250 – 500 mL /ha 500 mL /ha | Apply after the maize and sweetcorn reaches the 3 leaf expanded stage but before crop closure. For volunteer potatoes apply after full potato emergence but before tuber formation. |
| ORCHARDS: Pipfruit, stone fruit and citrus. For control of weeds listed in the amenity non-crop section. | See amenity section | Apply in the pre-flower or early post-flower period. Direct spray to minimise contact with trees. |
| PASTURES: Difficult to control thistles. | 50 – 100 mL /ha + MCPA or 2,4-D | To enhance the efficacy of the Pasture-Kleen™ Xtra or Maestro™ herbicides against difficult to control thistles (including phenoxy tolerant), add Versatill™ PowerFlo™ to the normal rate of the mixing partner. |
| Californian thistle | 125 mL/10 L in a carpet wiper. | A double pass will give best results. Add either Pulse® ¹ or Slikka® ¹ penetrants to improve weed control. |

CONSERVATION TILLAGE

Versatill™ PowerFlo™ controls a range of hard to control weeds such as clovers, Californian and other thistles, plantains and yarrow in conservation tillage programmes (minimum tillage or direct drilling).

| WEEDS | RATE mL /ha | COMMENTS |
|--|----------------|---|
| Clovers, narrow-leaved plantain, thistles | 250-350 | For best results apply to actively growing weeds. |
| Californian thistle | 500 | Apply from rosette to early flower. Retreatment may be required. |
| Yarrow | 500 | Apply to actively growing yarrow, autumn to spring. For best results surface cultivate no less than one week after treatment. |

For broad spectrum weed control in conservation tillage programmes, Versatill™ PowerFlo™ may be mixed with other herbicides such as glyphosate. Observe the directions and recommendations on the individual labels, when other products are tank mixed with Versatill™ PowerFlo™.

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