

**WARNING**  
Keep out of reach of children



# Korvetto™

## Arylex™ active

### HERBICIDE

**ACTIVE INGREDIENT:** Contains 5 g/L halauxifen-methyl plus 120 g/L clopyralid in the form of an emulsifiable concentrate. Also contains 240 g/L fatty acid dimethylamide.

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

A selective herbicide for the control of broadleaf weeds in forage brassicas

**READ THE LABEL BEFORE USE**

**NET CONTENTS:** 5 and 20 L

**Corteva Agriscience New Zealand Limited**  
Private Bag 2017  
New Plymouth 4342  
[www.corteva.co.nz](http://www.corteva.co.nz)  
Telephone: 0800 803 939



## **WARNING**



Flammable liquid Category 4

Eye irritation Category 2

Specific target organ toxicity (repeated exposure) Category 2

Hazardous to soil organisms

Hazardous to the aquatic environment (acute) Category 1

Hazardous to the aquatic environment (chronic) Category 1

## **QUALIFICATION REQUIREMENTS**

Persons mixing, loading, applying, or otherwise handling Korvetto™ must meet 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 Controls) Notice 2017 and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3 L is applied or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

## **PHYSICAL HAZARDS**

Combustible liquid. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In case of fire: Use water fog or fine spray, dry chemical, foam or carbon dioxide extinguishers. Alcohol resistant foams (ATC type) are preferred.

## **HEALTH HAZARDS**

Causes serious eye irritation. May cause damage to organs (kidney, liver, thyroid) through prolonged or repeated exposure. DO NOT breath mist/vapours/spray. See the PERSONAL PROTECTION section of this label. Wash hands and face thoroughly after handling. DO NOT eat, drink or smoke when using this product.

## **ENVIRONMENTAL HAZARDS**

Very toxic to aquatic life with long lasting effects. Avoid release to the environment. DO NOT apply directly into or onto water. 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. See *Management of Spray Drift* section on this label.

Selective herbicide – very toxic to some plant species. Certain plants may be damaged or killed from contact with this product. No person may apply the substance in a manner that results in adverse effects to non-target vegetation beyond the boundary of the subject property.

HSNO application restrictions apply: maximum application rate of 1 L/ha and a maximum of one application to the same area per year.

## **HANDLING PRECAUTIONS EQUIPMENT**

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

INFORMATION WITHIN THIS BOX IS NOT PART OF THE LABEL

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

## STORAGE

Store in the original container, tightly closed, away from foodstuffs and in a well-ventilated area. Keep cool. Store locked up. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Stores containing 100 L or more of Korvetto™ require bunding and are subject to signage. See the Health and Safety at Work (Hazardous Substances) Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

## PERSONAL PROTECTION

When opening the container, preparing the product for use, or applying the product, wear eye or face protection, chemical resistant gloves, and cotton overalls buttoned to the neck and wrist (or equivalent). Take off contaminated clothing and wash it before re-use. Wash hands and face before meals and after work.

## SPILLAGE

DO NOT touch or walk through spilled material. Wear the protective equipment recommended above. Stop further spill occurring and prevent entry into waterways and drains. **Small spills/leaks:** Absorb with 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 container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have 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.

Dispose of the product only by using according to the label, via Agrecovery (visit [www.agrecovery.co.nz](http://www.agrecovery.co.nz) or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal.

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

IF IN EYES: 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. If exposed, or if you feel unwell, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If medical advice is needed, have the product container or label at hand.

## TRANSPORT

DO NOT carry more than 1 L on a passenger service vehicle. Quantities of 1 L or less carried on a passenger service vehicle must be contained within sealed packaging.

## 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](http://www.corteva.co.nz)

## 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](http://www.epa.govt.nz)) or the Ministry for Primary Industries ([www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)).

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

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

Registered pursuant to the ACVM Act 1997, No P9554.  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR101282  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

	Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HALAUXIFEN-METHYL, CLOPYRALID)
	UN Number: 3082

Date of Manufacture:

Batch No.

Barcode

## GENERAL INSTRUCTIONS

### MIXING INSTRUCTIONS

Pour the measured quantity of Korvetto™ into a partially filled spray tank and add the remainder of the water. Agitate thoroughly during filling.

### WETTING AGENT & CROP OILS

The use of a wetting agent or crop oil is NOT required when using Korvetto™, except when tank mixing:

- Korvetto™ with Gallant™ Ultra herbicide for grass weed control.
- Korvetto™ with T-MAX™ herbicide for broad-leaf weed control.

### CLEANING OF SPRAY EQUIPMENT

Before using Korvetto™:

When spraying forage brassicas, equipment MUST be decontaminated BEFORE using Korvetto™, if herbicides such as MCPA, MCPB, 2,4-D and sulfonylurea compounds have been used at ANY time prior to Korvetto™. Small amounts of the above herbicides can severely affect brassica crops.

After using Korvetto™:

Small amounts of Korvetto™ will damage susceptible crops.

#### Rinsing

- Empty the tank completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the tank as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Rinse water should be discharged onto a designated disposal area or onto wasteland away from susceptible plants and drains sewers and water courses.

#### Decontamination

Following an application of Korvetto™ all spraying equipment must be thoroughly cleaned both inside and out with a suitable spray tank cleaner. Follow the instructions on the tank cleaner label for the decontamination process. DO NOT use chlorine-based tank cleaners.

Once decontamination has been completed cleaning water should be discharged onto a designated disposal area, or onto unused land away from desirable plants and water sources. The effectiveness of decontamination should be checked by applying water from the decontaminated sprayer to sensitive plants such as beans or peas and observing after 10 days for symptoms.

### RAINFASTNESS

DO NOT apply if rain is likely within one hour.

### WITHHOLDING PERIODS (WHP)

**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.**

#### Forage brassicas

DO NOT graze or cut for animal feed for 14 days after application. After this period, animals may graze forage brassicas and be sent for slaughter or used for milk production.

Where Korvetto™ is tank mixed with another product, observe the longest applicable withholding period.

INFORMATION WITHIN THIS BOX IS NOT PART OF THE LABEL

Korvetto™

7<sup>th</sup> March 2024

## COMPOST

**Korvetto™** must not be used for the treatment of forage brassicas where these will be used for making compost; or where the crops will be made available for collection for, or deposited at, a municipal green waste recycling depot.

**After application of tank mixes of Korvetto™ + T-MAX™ (0.5L/ha):** Observe the Animal Waste restrictions for forage brassicas for T-MAX™. Refer to the T-MAX™ label.

## RESIDUES IN SOIL AND PLANTBACK INTERVALS

The rate of decline of soil residues is dependent on several factors (including soil type and rainfall) and will vary from district to district. To promote herbicide decomposition, plant residues from treated crops should be evenly incorporated into the surface soil. Breakdown of residues in plants or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.

Following Crop	Plant back Intervals and Comments
Cereals, maize, annual or perennial ryegrass and forage brassicas	May be sown at any time following application to forage brassicas.
Clovers	<p><b>After application of Korvetto™ alone:</b> DO NOT sow for at least 3 months after application.</p> <p><b>After application of tank mixes of Korvetto™ and T-MAX™ (0.5 L/ha):</b> DO NOT sow for at least 4 months after application. The clover plant-back interval may be greater than specified if an application is made to a dense, vegetative crop of forage brassicas and that crop is allowed to senesce and/or remain ungrazed.</p> <p>Deep ploughing to completely invert soil, followed by surface cultivation is recommended before sowing clover.</p> <p>Refer to Special Notes below.</p>
Fodder beet	<p><b>After application of Korvetto™ alone:</b> DO NOT sow for at least 6 months after application.</p> <p><b>After application of tank mixes of Korvetto™ and T-MAX™ (0.5 L/ha):</b> DO NOT sow for at least 18 months after application.</p>
Other susceptible crops include, but are not limited to: flowers, some fruit trees, legumes (e.g. peas, beans, Lucerne), ornamentals, potatoes, shade trees, squash, tomatoes, vegetables, or vine crops.	<p><b>After application of Korvetto™ alone:</b> DO NOT sow for at least 6 months after application.</p> <p><b>After application of tank mixes of Korvetto™ and T-MAX™ (0.5 L/ha):</b> DO NOT sow for at least 18 months after application.</p> <p>Deep ploughing to completely invert soil, followed by surface cultivation is recommended before sowing other susceptible crops.</p> <p>Refer to Special Notes below.</p>
<p><b>Special Notes:</b></p> <p>DO NOT apply Korvetto™ if it is necessary to sow these crops within the plant back intervals.</p> <p>Low rainfall conditions (less than 800 mm per year), low organic matter or heavy, poorly drained soil, will slow herbicide breakdown. This may necessitate delaying planting of clover until at least 6 months after</p>	

INFORMATION WITHIN THIS BOX IS NOT PART OF THE LABEL

application or until after a soil bioassay (see SOIL BIOASSAY below) has been conducted to confirm clover germination. **Planting of other susceptible crops may need to be delayed even further.**

If concerned about soil residues, DO NOT plant any susceptible broadleaf crops until the soil bioassay described below has demonstrated that it is safe. Alternatively, sow a small area first to check soil residues.

### SOIL BIOASSAY

A simple bioassay involves collecting at least 10 spade spits of soil to a depth of 200 mm from around the paddock and thoroughly mixing the soil together. Place some of this soil in a suitable shallow container to a depth of 3-5 cm and sow 100 seeds of the susceptible crop into the soil. (Subterranean or white clover are good indicator plants where it is not practical to use the susceptible crop). Keep in a warm situation with good light and ensure the soil does not dry out. After crop emergence, check the number of plants that have germinated and seedling vigour. Symptoms of Korvetto™ residues include low or non-germination and emergence, leaf cupping, leaf yellowing, stem elongation and twisting. If these symptoms occur – DO NOT plant the susceptible crop. Repeat the bioassay again after a further time interval.

### PROTECTION OF THE ENVIRONMENT

DO NOT use on turf.

DO NOT allow the spray to drift onto susceptible crops.

Use under meteorological conditions or with spraying equipment that will minimise drift. See Application Method & Comments section.

DO NOT apply close to, or on, areas where treated soil or surface water may run off to areas containing, or are to be planted with, susceptible plants.

The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in the substance leaching into ground water. DO NOT apply when heavy rainfall is expected.

#### **Management of Spray Drift:**

DO NOT apply when wind speeds are less than 3 km/hr or more than 20 km/hr as measured at the application site.

Spraying equipment must be calibrated to deliver coarse or larger droplets as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (S572) or the British Crop Production Council guideline.

### MANDATORY DOWNWIND BUFFER ZONES

For the protection of aquatic organisms the following buffer zones MUST BE observed from DOWNWIND water bodies:

- ≥ 10 metres for ground applications
- ≥ 10 metres for aerial applications

### ADVISORY DOWNWIND BUFFER ZONES

For the protection of non-target plants the following buffer zones are recommended from any DOWNWIND natural or planted vegetation:

- ≥ 10 metres for ground applications
- ≥ 75 metres for aerial applications

Due to local conditions the recommended downwind buffer zones may not provide adequate protection in some circumstances. Persons applying the substance must take into account site-

specific conditions at the application site on the day of application and amend the size of the buffer zone as required.

**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). Avoid strong winds or inversion conditions that may result in drift from the target area. Techniques to minimise drift should be employed at all times.

## RESISTANCE MANAGEMENT

<b>GROUP</b>	<b>4</b>	<b>HERBICIDE</b>
--------------	----------	------------------

Korvetto™ is a pyridine carboxylate herbicide (Group 4). Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximize the effectiveness of herbicides, products containing alternate modes of action should be used in the overall 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.

Note that where T-MAX™ is intended to be tank mixed with Korvetto™ on forage brassicas that both Group 4 herbicides will be applied. To maximise the effectiveness of herbicides, products containing alternate modes of action should be used in the spray program.

## DIRECTIONS FOR USE

All spray applications should ensure complete coverage of the target weed.

### BROADCAST APPLICATION – FORAGE BRASSICAS

- Korvetto™ should be applied to actively growing forage brassicas at the 3-4 leaf stage. See Crop Selectivity below.
- Apply to small, actively growing, seedling weeds as soon as possible after weed emergence is largely complete. See WEEDS CONTROLLED below.

**IMPORTANT:** See Decontamination of Application Equipment, Withholding Periods, Application Methods and Comments, Residues In Soil and Plant back Intervals sections of the label before all application to forage brassicas.

<b>WEEDS &amp; GROWTH STAGES CONTROLLED</b>	<b>RATE</b>	<b>COMMENTS</b>
Black nightshade (up to 8 leaf) Fathen (up to 8 leaf) Fumitory (up to vegetative rosettes) Hairy nightshade (up to 8 leaf) Shepherds purse (up to 4 leaf)	1.0 L/ha	Weeds at later growth stages will be suppressed. Californian thistle, and other thistles, will be suppressed. Addition of Versatill™ PowerFlo™ (50 – 300 mL/ha) to Korvetto™ will increase thistle control. Good crop growth will increase competition and weed control.
<b>Tank mixes with T-MAX™</b>		
Amaranthus/Redroot (up to 4 leaf)	Korvetto™ (1 L/ha) plus T-MAX™ (0.5 L/ha)	Addition of Uptake™ Spraying Oil (1 L/ha) is required when adding T-Max™ to Korvetto™ and will increase control of later growth stages or when weeds are not actively growing.



## APPLICATION METHODS & COMMENTS – FORAGE BRASSICAS

- Water Rates and Spray Quality:** **Ground broadcast application:** apply Korvetto™ in 100 - 200 litres of water per hectare as a coarse quality spray as defined by the British Crop Protection Council (BCPC) Guidelines or the American Society of Agricultural and Biological Engineers Standard (ASABE - S572).  
Use of higher water rates generally improves coverage and weed control – especially where weeds are dense.
- Aerial application:** apply Korvetto™ in 60-100 litres of water per hectare as a coarse quality spray as defined by BCPC and ASABE - S572.
- CDA application:** use the large (250-300 micron) droplet size and apply not less than 30 litres of water per hectare.
- IMPORTANT:** Select the appropriate nozzles for the required spray quality and operate the equipment to minimize spray drift. Korvetto™ must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
- Compatibility:** Korvetto™ is compatible with T-MAX™ and Gallant™ Ultra grass weed herbicides and most insecticides recommended for use in forage brassicas.
- Application of spraying oils, required for T-MAX™ and Gallant™ Ultra, or other grassweed herbicides, in tank mixes with Korvetto™ may slightly increase broadleaf weed control but may decrease crop selectivity. (See Crop Selectivity below). When mixing Korvetto™ with T-MAX™ and Gallant™ Ultra herbicides, Uptake™ is the recommended spraying oil for use when required. Always consult Corteva Agriscience before using spraying oils other than Uptake™ in tank mixes with Korvetto™.
- Consult your [www.corteva.co.nz](http://www.corteva.co.nz) representative for more information.
- Crop Selectivity:** Some transient cupping of leaves and height reduction may occur after application to some forage brassica varieties.
- Typically yield is not affected when good growing conditions occur before and after application.
- DO NOT apply Korvetto™:
- To forage brassicas less than the 3 leaf stage,  
If forage brassicas are stressed at application or if stress is probable after application. Stress factors include low soil moisture, extreme temperatures, nutritional deficiencies or high pest and disease pressure.
- Test Korvetto™ on small areas of newly released forage brassica varieties and cultivars until experience has shown that application is safe.
- DO NOT apply to Raphanobrassicas or forage plantain.
- Pre-emergence herbicides:** Korvetto™ can be used following pre-emergent applications of trifluralin herbicide. Application of some other herbicides prior to Korvetto™ may result in injury to forage brassicas and suppression of yield. Consult with [www.corteva.co.nz](http://www.corteva.co.nz) prior to application of other (pre or post-emergent) herbicides if Korvetto™ is to be applied to forage brassicas.
- Crop Competition:** Crop competition will increase control of weeds only moderately susceptible to Korvetto™. Crop competition is increased by ensuring ideal pH and fertility is

INFORMATION WITHIN THIS BOX IS NOT PART OF THE LABEL

achieved prior to planting, and that seed is sown at appropriate rate and depth into a fine, moist seedbed.

™ ® Trademarks of Corteva Agriscience and its affiliated companies. © 2023 Corteva