WARNING

KEEP OUT OF REACH OF CHILDREN • READ LABEL BEFORE USE

Nufarm

Goal® Advanced

SCAN ME

AGRECOVERY
www.agrecovery.co.nz

ACTIVE INGREDIENT:
480g/L OXYFLUORFEN
IN THE FORM OF A SUSPENSION CONCENTRATE

For pre and post emergence residual broadleaf weed control in apples, stonefruit, kiwifruit, grapevines, onions, forage kale, vegetable brassicas and forest nurseries.

Nufarm
Grow a better tomorrow

GHS CLASSIFICATION



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

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

WARNING

- May cause damage to kidneys and liver through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects. Avoid contamination of any water supply with product or empty container. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.
- Very toxic to the soil environment.
- SELECTIVE HERBICIDE – very toxic to some plant species. Certain plants may be damaged or killed from root uptake of this product. Do not allow drift outside the target area.
- **BEWARE: Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do not allow drift to occur outside the target area.**

HANDLING PRECAUTIONS

The person mixing or applying this product must be a “Qualified Contractor” or a "Qualified Person”. The spray mixture may also be prepared by a “Qualified Loader”.

STORAGE

- Store in original container, tightly closed and in a locked, dry, cool, area away from foodstuffs, seeds and fertilisers. Store in accordance with NZS 8409 Management of Agrichemicals.
- Stores containing 100L or more of Goal Advanced require secondary containment and signage, and more than 100L require emergency response plans.

PERSONAL PROTECTION

- When mixing or applying wear eye protection, chemical resistant gloves and boots and cotton overalls buttoned to the neck and wrist.
- Do not breathe fumes, mist or spray.
- Do not eat, drink or smoke while using this product.
- Wash hands and face thoroughly after handling.

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.

DISPOSAL

- Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.
- Dispose of product only by using according to the label, or at an approved treatment facility.

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

Spillage

Collect spillage. Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste containers. Wash area with water and detergent and absorb with further inert material. Dispose of waste safely in an approved landfill.

Record Keeping

Records of use, as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of Goal Advanced is used within 24 hours. Records must be kept for a minimum of 3 years from application date.

RESISTANCE MANAGEMENT

Goal Advanced is a diphenylether GROUP 14 HERBICIDE with the inhibition of protoporphyrinogen oxdidase (PPO) mode of action. 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 spray program. Consult www.resistance.nzpps.org/ for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

MIXING:

Quarter fill the spray tank and add the required amount of Goal Advanced. Add the remainder of the water, with the agitator running. Maintain agitation during spraying. Only mix sufficient spray solution for immediate use and avoid storing.

When tank mixing: Goal Advanced should be added to the tank first followed by wettable powders or dry flowable formulations, suspension concentrates (flowables) aqueous concentrates, emulsifiable concentrates and then add the surfactant last (if used).

Cleaning the spray equipment:

Flush equipment thoroughly with clean water after use.

Rinsing

- After using Goal Advanced, empty the spray unit completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain the 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 through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on waste land away from desirable plants and water sources.

Decontamination

The new foliage of most plants may be damaged by Goal Advanced. Before applying to sensitive crops with equipment that has been used to apply Goal Advanced:

- Wash the tank and rinse the system as above. Then quarter fill the tank and add Tank and Equipment Cleaner or a standard alkali-based laundry detergent at 500g (or mL)/100L water and circulate throughout the system for at least 15 minutes. If using a laundry detergent concentrate use 250g (or mL)/100L 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.

GENERAL INFORMATION

Goal Advanced is an effective pre-emergence and/or post emergence herbicide which may be used alone or in combinations with other knockdown or residual herbicides. Goal Advanced possesses some contact activity against small weeds (less than 10cm in height) and long-term residual activity in low organic matter soils. Residual life is greatest when applied to bare ground or where weeds are sparse.

APPLICATION METHODS

Goal Advanced can ONLY be applied using conventional ground spraying equipment.

IMPORTANT: In order to select the appropriate nozzles for the required spray quality and operate the equipment to minimize spray drift, this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS 8409).

Ground Boom: Goal Advanced may be applied by all conventional spraying equipment capable of applying the necessary water volumes per hectare. Use flat fan or off-centre nozzles as a medium quality spray as defined by the British Crop Protection Council system or the American Society of Agricultural and Biological Engineers (S572). Use the water rates as specified in the Use Directions Table.

RE-ENTRY PERIOD

Do not allow entry into treated areas until the spray has dried. If prior entry is necessary, wear the protective equipment described above.

WEEDS CONTROLLED INCLUDE:

Bitter cress	Seedling docks	Parsley piert	Field speedwell
Cut-leaved geranium	Speedwells	Root mallows	Mouse-ear chickweed
Field bindweed	Wild portulaca	Shepherd's purse	Pennyroyal
Fumitory	Black nightshade	Storksbill	Sea radish
Groundsel	Cleavers	Wild turnip	Sow thistle
Nettle	Field madder	Catsear	Twincress
Redroot	Hedge mustard	Fathen (partial control)	Wireweed

DIRECTIONS FOR USE

The maximum application rate for Goal Advanced is 3L/ha (1.48 kg ai/ha) pre-emergence applied once per season and 1.5L/ha (0.72 kg ai/ha) post-emergence applied once per season.

Use	Rates	Directions for Use
Vegetable Brassicas: Cabbage, cauliflower, broccoli and broccoflower	415-830ml/ha in 300-400L water.	Apply immediately after transplanting to a weed free soil. Goal Advanced may be applied directly after irrigating the newly transplanted crop. Some leaf burning may occur in mid-winter, but this is short lived and does not affect yield. Note: Under cool humid conditions, some varieties of broccoli may be damaged resulting in yield reductions. Use the lower use rate under cold wet conditions (midwinter) or on medium soils and the higher rate in warm weather (summer) on heavy soils. Only make one application per crop.
Onions Post emergence	125-250ml/ha in 300-400L of water	Apply to a weed free soil once onions have two true leaves. Use the low rate when onions are small and conditions are wet and cold. Repeat applications at 4 - 6 week intervals as required. Treat any weed escapes with suitable contact herbicides if required. The higher rate can be used once onions have three true leaves. Do not use more than 990 ml/ha per crop.
Kale Post emergence	320 ml/ha in 200-250 L water	Apply alone or in combination with Kamba® 750 at 230 ml/ha once the crop has reached 2-4 true leaves. Target weeds when they are actively growing and less than 10cm tall for greatest efficacy. Some bleaching or burning of the crop leaves can occur but this is quickly outgrown and does not affect yield. Double overlaps may increase crop phytotoxicity. Avoid overlaps where possible. Only make one application per crop.

Use	Rates	Directions for Use
Apples, stonefruit, kiwifruit and grapevines	3 L/ha in 300-400L of water	**Dormant application- Residual weed control:** Apply Goal Advanced to bare ground. Do not use near newly grafted or budded cuttings or any plants less than one year old.
		NOTES: a) Residual application **must** be made while the trees and vines are dormant. b) Applications should be made to the base of the trees and vines to avoid direct plant contact. c) Treatment should preferably be made when the soil is moist and weeds are small. d) Do not apply during prolonged periods of dry weather or when soil is very dry. e) Volatilisation of Goal Advanced early in the season may cause a reddening of young buds and an initial check to growth on kiwifruit vines. However, the plants can be expected to grow out of these initial effects.
	1-1.5 L/ha Goal Advanced plus the label recommended rate of a glyphosate product such as CRUCIAL® or other approved glyphosate product.	**Dormant application- Spike with glyphosate** For the control of "difficult to kill" weeds such as mallow, nettle, hedge mustard, shepherd's purse and field speedwell. Use the higher rate of Goal Advanced for creeping mallow and weeds taller than 25 cm. Apply to thoroughly wet all weeds. Addition of Contact™ Xcel or other non-ionic surfactant at 25 ml per 100 litres of water is recommended. Applications should be made to the base of the trees and vines to avoid direct plant contact. **Application must be made while the trees and vines are dormant.**
	40-75 ml/ha Goal Advanced in conjunction with the recommended label rate of CRUCIAL or other approved glyphosate product.	**In season- Spike with glyphosate** For assistance with a quick brown out and foliar weed kill, use the higher rate on large, older weeds. Goal Advanced will assist CRUCIAL or other approved glyphosate products to control mallows, tall willow herb, cleavers and nettles. **Applications should be made to the base of the trees and vines to avoid direct plant contact.**

<table>
<tr><th colspan="2">Use</th><th>Rates</th><th colspan="2">Directions for Use</th></tr>
<tr><td rowspan="3">FOREST NURSERIES</td><td rowspan="2">Pre-emergence treatment</td><td>1-2 L/ha in 300-400L of water</td><td>Pinus and Cupressus species</td><td rowspan="2">Goal Advanced can inhibit height growth in some Eucalyptus and Racosperma species. Apply Goal Advanced to clean seedbeds immediately after sowing but prior to any emergence of seedlings.</td></tr>
<tr><td>250-500 ml/ha in 300-400 litres of water</td><td>Eucalyptus and Racosperma (Acacia) species</td></tr>
<tr><td>Post-emergence treatment</td><td>1-1.5 L/ha in 300-400 litres of water</td><td colspan="2">Foliage discoloration can occur to Eucalyptus, Cupressus and Radiata pine seedlings. Apply in sufficient water to obtain complete coverage of all weeds. Apply no sooner than five weeks after seedling emergence. To achieve optimal control, weeds should be no more than 5 cm in height.</td></tr>
<tr><td></td><td colspan="4">Some seedling tree damage can be expected with either pre or post emergence treatments.</td></tr>
<tr><td colspan="2">Conservation Tillage</td><td>40 ml/ha Goal Advanced with the recommended label rates of CRUCIAL or other approved glyphosate product.</td><td colspan="2" rowspan="2">To aid a faster brown out. Observe all CRUCIAL or other approved glyphosate product label instructions.</td></tr>
<tr><td colspan="2">Non-crop uses (fence lines, total Vegetation Control, driveways etc.)</td><td>40-75 ml/ha Goal Advanced with the recommended label rates of CRUCIAL or other approved glyphosate product.</td></tr>
</table>

Handgun or knapsack spraying: Mix Goal Advanced at 150 ml/100L plus the label recommended rate of a glyphosate product such as CRUCIAL. Apply as a wetting spray to full coverage.

CRUCIAL or other approved glyphosate product tank mixes: Goal Advanced with the recommended label rates of CRUCIAL or other approved glyphosate product, will aid in an initial brownout on most weed leaves and stems within 3 to 7 days of application. Goal Advanced will not interfere with the translocation properties of glyphosate. Some weeds, e.g., speedwells, cress and certain grasses etc may not show an initial scorch but an earlier weed kill should still be obtained.

Plantback periods
When used at low rates there should be no problem with germination of following crops following cultivation or direct drilling of pasture or brassicas. Do not use as a stale seedbed additive to glyphosate in vegetable growing unless prior knowledge suggests otherwise.

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.

WITHHOLDING PERIOD

Onions – 6 weeks
Apples, stonefruit, kiwifruit, grapevines and vegetable brassicas – 1-day
Forage kale – 1 month

Sheep leaf plucking in vineyards: Sheep that have been leaf lucking within treated vineyards should be removed from the treated area and placed on clean feed for a period of 6 months prior to slaughter.

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™ Contact is a trademark of Nufarm Limited
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See www.www.foodsafety.govt.nz for registration conditions.
Approved pursuant to HSNO Act 1996, EPA Approval Code HSR007979
See www.epa.govt.nz for approval controls.

CONDITIONS OF SALE:
CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER

If you open this container, you will be deemed to have accepted the conditions below.

The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded.
When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agents.



UN 3082
ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (oxyfluorfen)
Class 9, PG III, Marine Pollutant.

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