Goal™ Advanced Herbicide

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

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING.

ACTIVE INGREDIENT:
480 g/litre oxyfluorfen in the form of a suspension concentrate.

GROUP E HERBICIDE

HARMFUL - Keep out of reach of children

ECOTOXIC

CONTENTS: 10 Litres

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HAZARD CLASSIFICATION
6.9B, 9.1A, 9.2A

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

RECORD KEEPING
Records of use, as described in the relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L of Goal™ Advanced 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.

IMPORTANT HSNO CONTROLS
Do not apply onto or into water.
The maximum application rate is 3L/ha pre-emergence applied once per season and 1.5 L/ha post-emergence applied once per season.
Goal Advanced may only be applied by ground equipment.

TOXICITY
MAY CAUSE ORGAN DAMAGE FROM REPEATED ORAL EXPOSURE AT HIGH DOSES. Do not eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.

ECOTOXICITY
HIGHLY TOXIC IN THE AQUATIC ENVIRONMENT. DO NOT contaminate an aquatic environment with chemical or empty container. Do not spray over or allow drift over, an aquatic environment.
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 to occur. Decontaminate equipment before use on sensitive plants (see Application Methods section).

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 seeds, fertilizers and foodstuffs.
Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing 100L or more of Goal Advanced require bunding, are subject to signage and emergency response plans. See the Hazardous Substances Emergency Management and Identification Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

PERSONAL PROTECTION
When mixing or applying wear goggles, chemical resistant gloves and boots and cotton overalls buttoned to the neck and wrist.
DISPOSAL

Triple rinse empty containers 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 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 this product only by using according to the label, via Agrecovery (visit www.agrecovery.co.nz or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. Do not burn.

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

Do not dispose of this product, spray mix or equipment cleaning water down drains or sewers.

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.

Registered pursuant to the ACVM Act 1997, P7836
See www.ww.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR007979
See www.epa.govt.nz for approval controls.

Registered to:
Dow AgroSciences (NZ) Ltd
89 Paritutu Road
Private Bag 2017
New Plymouth 4342
Telephone 0800 803 939

EMERGENCY RESPONSE
(All hours)
Ring from anywhere in New Zealand
0800 CHEMCALL, or
0800 243 622, or
Globally
+64-3-353-0199

IN A TRANSPORT EMERGENCY
DIAL 111
FOR POLICE OR FIRE
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 splashed in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

SAFETY DATA SHEET
A Safety Data Sheet is available from Dow AgroSciences on request. Call Customer Service Toll Free on 0800 803 939 or visit www.dowagrosciences.co.nz.

PRODUCT 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.

WEEDS CONTROLLED INCLUDE:

<table>
<thead>
<tr>
<th>Bitter cress</th>
<th>Black nightshade</th>
<th>Catsear</th>
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<tbody>
<tr>
<td>Cut leaved geranium</td>
<td>Cleavers</td>
<td>Fatten (partial control)</td>
</tr>
<tr>
<td>Field bindweed fumitory</td>
<td>Field madder</td>
<td>Field speedwell</td>
</tr>
<tr>
<td>Groundsel</td>
<td>Hedge mustard</td>
<td>Mouse-ear chickweed</td>
</tr>
<tr>
<td>Nettle</td>
<td>Parsley piert</td>
<td>Pennyroyal</td>
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<tr>
<td>Redroot</td>
<td>Root malows</td>
<td>Sea radish</td>
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<tr>
<td>Seedling docks</td>
<td>Shepherd’s purse</td>
<td>Sow thistle</td>
</tr>
<tr>
<td>Speedwells</td>
<td>Storksbill</td>
<td>Twincess</td>
</tr>
<tr>
<td>Wild portulaca</td>
<td>Wild turnip</td>
<td>Wireweed</td>
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</tbody>
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BEWARE: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

DIRECTIONS FOR USE
Goal Advanced can ONLY be applied using conventional ground spraying equipment. Flush equipment thoroughly with clean water after use. Decontaminate before using on plants that are sensitive to Goal Advanced. The new foliage of most plants may be damaged by Goal Advanced.

Cleaning the spray equipment:

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
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 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.

APPLICATION METHODS

**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 (NZS8409).

**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. Apply the spray uniformly to cover the weeds as a directed treatment to the base of tree and vine crops.

**Spot Spraying (Handgun):** Apply as a wetting spray to full coverage using either a hand lance fitted with a solid cone nozzle or a handgun fitted with a 4 tip at 500 - 2000 kPa.

**Spot Spraying (knapsack):** Apply as a wetting spray to full coverage.

**MIXING:**
Quarter fill the spray tank and add the required amount of Goal Advanced. Add the remainder of the water, with the agitator running. Add the Uptake™ Spraying Oil last if used. 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).

**MIXING:** Partially fill the spray tank with clean water and add the recommended rate of chemical while the pump and agitator are still running. Complete filling with water.

**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.

**RESISTANCE MANAGEMENT**

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<tr>
<th>GROUP</th>
<th>HERBICIDE</th>
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Goal Advanced is a Diphenylether herbicide (Group E). 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 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.
WITHHOLDING PERIOD

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.

Apples, stonefruit, kiwifruit, grapevines and forest nurseries - Not required when used as directed.

RECOMMENDATIONS

Vegetable Brassicas: Cabbage, cauliflower, broccoli and broccoflower

Apply Goal Advanced at 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.

Apples, stonefruit, kiwifruit and grapevines

Residual weed control: Apply Goal Advanced at 3 litres per hectare in 300-400 litres of water to bare ground when trees and vines are dormant. Do not use near newly grafted or budded cuttings or any plants less than one year old.

Post emergent treatment:

When using glyphosate for weed control in apples, stonefruit, kiwifruit and grapevines add Goal Advanced to improve the control of “difficult to kill” weeds such as mallow, nettle, hedge mustard, shepherd’s purse and field speedwell.

(a) Boom spraying: Apply Goal Advanced at 1-1.5 litres per hectare plus the label recommended rate of a glyphosate product such as Glyphomax™ XRT. Use the higher rate of Goal Advanced for creeping mallow and weeds taller than 25cm.

(b) Handgun or knapsack spraying: Mix Goal Advanced at 150 ml/100L plus the label recommended rate of a glyphosate product such as Glyphomax XRT and apply to thoroughly wet all weeds. Addition of Latron™ B-1956 wetting agent at 25 ml per 100 litres of water is recommended.

NOTES:

a) 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.

f) Do not apply onto or into water.

g) The maximum application rate is 3L/ha pre-emergence applied once per season and 1.5L/ha post-emergence applied once per season.

h) Goal Advanced may only be applied by ground equipment.

FOREST NURSERIES

Some seedling tree damage can be expected with either pre or post emergence treatments.

PRE-EMERGENCE TREATMENT: Goal Advanced can inhibit height growth in some Eucalyptus and Racosperma species. Apply Goal Advanced in 300-400 litres of water per hectare to clean seedbeds immediately after sowing but prior to any emergence of seedlings at the following rates of product per hectare:-

- Pinus and Cupressus species:- 1-2 litres per hectare
- Eucalyptus and Racosperma (Acacia) species:- 250-500mL per hectare.
POST EMERGENCE TREATMENT: Foliage discoloration can occur to Eucalyptus, Cupressus and Radiata pine seedlings. Apply 1-1.5 litres of Goal Advanced per hectare in sufficient water to obtain complete coverage of all weeds, no sooner than five weeks after seedling emergence. To achieve optimal control, weeds should be no more than 5cm in height.

ADJUVANT TO GLYPHOMAX XRT: Goal Advanced when used as directed with the recommended label rates of Glyphomax XRT, 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 Glyphomax XRT. 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. The addition of Goal Advanced to Glyphomax XRT will also reduce the required rainfast period to less than 20 minutes after application.

Orchard weed strips, non-crop uses (fence lines, Total Vegetation Control, driveways etc)
For assistance with a quick brown out, foliar weed kill and to enable a short rainfast period, apply 40-75mL/ha Goal Advanced in conjunction with the recommended label rate of Glyphomax XRT. Use the higher rate on large, older weeds. Goal Advanced will assist Glyphomax XRT to control mallows, tall willow herb, cleavers and nettles.

Conservation Tillage
To aid a faster brown out, apply 40mL Goal Advanced with the recommended label rates of Glyphomax XRT. Observe all Glyphomax XRT label instructions.

NOTE
See notes f), g), and h) above.

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