

**EXTENSION OF AUTHORISATION FOR MINOR USES (EAMU)**

**INSTRUCTIONS FOR USE**

**PPP: Dual Gold (PCS No. 04192)**

**CROPS:**

Outdoor grown: bulb onion, garlic, shallot, dwarf French bean, runner bean, strawberry, broccoli, calabrese, cauliflower, Brussels sprout, head cabbage, Chinese cabbage, collard, kale, sugar beet, fodder beet, red beet (beetroot) swede, turnip, lettuce, baby leaf crops & herbs

For this EAMU the following crop definitions apply:

**Lettuce includes:** baby leaf lettuce and baby leaf brassicas up to 8 true leaves, Butterhead, oakleaf, lollo rossa, lambs, iceberg, cos romaine, scarole (broad leaf endive) wild or red chicory, radicchio, curly fine leaf endive (frizze) & sugar loaf (Sucre de pain), batavia, apollo, cress, land cress, rocket/wild rocket, red mustard, mizuna, pea shoots, salanova, red chard, tatsoi, bullsblood & multileaf types of the above list.

**Herbs includes:** Angelica, balm, bay, burnet (salad), catnip, chamomile, chives, clary sage, dragonhead, fennel, horehound, hyssop, land cress, lavandin, lavender, lemon verbena, lovage, marjoram, mint, nettle, oregano, plantain, rosemary, rue, sage, sorrel, spike lavender, St John's Wort, tarragon, thyme, woodruff, yarrow, basil, Borage, caraway, chervil, coriander, curry plant, dill, fenugreek, feverfew, marigold, nasturtium, parsley, savory & violet.

**Chinese cabbage includes:** pak choi & choi sum

*There is limited evidence of crop safety and/or product efficacy available for this extension of authorisation for minor uses and the commercial risk of using this product on the crops/situations listed in this document is borne entirely by the grower.*

This approval provides for the use of the product **Dual Gold (PCS No. 04192)** in respect of, the crops and situations as listed above, which are extra to those specified on the product label.

The conditions of application outlined below are statutory. They must be complied with when availing of this extension for minor uses.

The instructions provided in this extension for minor uses must be used in conjunction with information provided on the approved product label.

Failure to abide by the conditions of approval specified below or on the product label may constitute a breach of the product approval.

**Reference Date: 10.09.19.** [Includes latest changes. This version should be used until updated]

<i>Product name:</i>	Dual Gold
<i>Active Substance:</i>	S-metolachlor
<i>Formulation:</i>	960 g/l EC
<i>Authorisation Holder:</i>	Syngenta UK limited
<i>Marketing Company:</i>	Syngenta Ireland Ltd
<i>PCS No:</i>	04192
<i>User type/Function:</i>	Professional Use Only / Herbicide.

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**Application:**

Crop	Max. individual dose	Max. number of applications	Max. total dose	Minimum interval between applications	Latest time of application	Target
Outdoor : Runner & dwarf french bean	1 L/ha	-	1 L/ha	N/A	Immediately after sowing	Annual meadow grass and some broad leaf weeds
Outdoor : Strawberry	0.7 L/ha	-	1.3 L/ha	N/A	30 days pre harvest	Annual meadow grass and some broad leaf weeds
Outdoor : Broccoli, calabrese, cauliflower, Brussel sprout, head & chinese cabbage, collard, kale	1.4 L/ha	-	1.4 L/ha	N/A	Drilled crops – pre emergence. Transplanted crops – within 5 days of planting but before weed emergence	Annual meadow grass and some broad leaf weeds
Outdoor : Onion, garlic shallot, sugar, fodder & red beet, swede, turnip	1.4 L/ha	-	1.4 L/ha	N/A	Up to 4 true leaves	Annual meadow grass and some broad leaf weeds
Outdoor : Lettuce, baby leaf crops & herbs	0.7 L/ha	-	1.4 L/ha	N/A	7-10 days post transplanting or prior to 3 <sup>rd</sup> true leaf where crop is drilled	Annual meadow grass and some broad leaf weeds

**Other specific restrictions:**

- (1) To avoid risks to human health & the environment comply with the terms of this approval in conjunction with the directions for use on the product label.
- (2) For any individual crop the maximum total dose refers to the total dose of any product containing the same active ingredient.

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- (3) Application by tractor mounted/trailed sprayer only.
- (4) Post application, do not allow unprotected persons to enter treated areas until the crop is completely dry & has been well ventilated.
- (5) Application may **only** be made during the period 1<sup>st</sup> March to 31<sup>st</sup> May.
- (6) For environmental information refer to the product label but specifically: To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies from tractor mounted/trailed sprayers. Aim spray away from water. Growers may be eligible to reduce the buffer zone under the PRCD STRIPE Scheme.
- (7) This approval extends to professional use only.
- (8) For operator protection refer to the product label in conjunction with the specific restrictions above.
- (9) Adverse effects: Approval holders must immediately submit any new information on the potentially dangerous effects of a product or residues of an active substance contained in a product, on human or animal health, or the environment.

*Advisory information:*

This approval relates to the use of Dual Gold on the crops and situations listed above as a horticultural herbicide for the control of: AMG, red deadnettle, mayweed, sow thistle, common field speedwell. It is also moderately useful on: cockspur grass, common chickweed, common amaranth & fat hen.

Apply in a minimum of 200 litres of water/ha.

Growers are strongly advised to test crop safety on a small area of crop prior to wide-scale use. Heavy rainfall or irrigation soon after application may result in crop damage. Do not apply when heavy rain is forecast. Test tank-mixes for crop safety.

On light soils that have relatively poor humus content, apply a lower dose. If s-metolachlor is used on drilled crops in tank-mix with low dose of products containing pendimethalin (where authorised) it is vital that it is applied immediately or as soon as possible after sowing or damage from pendimethalin may result on some crops.

**Alliums:**

Some experience has shown that the use of full rate 'Dual Gold' applied to drilled crops prior to crop emergence may result in phytotoxicity. Split dose use post-emergence in drilled crops is advised for crop safety. On lighter soils a maximum rate of 0.5l/ha applied from 1st true leaf at 3 cm may be advisable. Where used on sets the product can be used safely prior to crop emergence.

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Weed control may be reduced if 'Dual Gold' is applied to dry soils. Always tank-mix with a contact herbicide if weeds are emerged. Do not tank-mix with flumioxazin (Sumimax) Herbicides are more prone to leaching on loose, puffy seedbeds.

Some lettuce varieties (e.g. Lollo Rosso) may suffer a growth check following application of Dual Gold post-transplanting.

Pre or early post-emergence application in herbs should also be approached with extra caution until such use has been evaluated on small areas.

*Resistance Management:*

Total reliance on one pesticide will hasten the development of resistance. Pesticides of different chemical groups or alternative control measures should be included in the planned anti-resistance strategy. This product should be used in conjunction with other herbicides from different cross-resistant groups [different mode of action, HRAC group] with satisfactory efficacy against the target.

Dual Gold contains S-metolachlor.

S-metolachlor is classed by HRAC as group K3.

*IMPORTANT PLEASE NOTE:*

Prior to the use of this product, growers should take advice from their crop advisors particularly in relation to the use of this product within an integrated crop management system of production.

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