

GREENCROP DOONBEG 2

A water dispersible granule formulation containing 30 g/kg mesosulfuron-methyl and 6 g/kg iodosulfuron-methyl-sodium with heavy aromatic solvent naphtha (petroleum) for the control of black-grass, rye-grasses and certain other annual grasses and broad-leaved weeds in winter wheat. **MAPP 13025**

	Greencrop Doonbeg2 is a water dispersible granule formulation containing 30 g/kg mesosulfuron-methyl and 6 g/kg iodosulfuron-methyl-sodium.
	Danger Causes skin irritation Causes serious eye damage Very toxic to aquatic life with long lasting effects Wear protective gloves/protective clothing/eye protection/face protection IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF exposed or concerned: Call a POISON CENTRE or doctor/physician
	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste
	Contains fatty alcohol ethoxylate alkyl ether. May produce an allergic reaction.
To avoid risks to human health and the environment, comply with the instructions for use	

The Control of Substances Hazardous to Health (COSHH) Regulations may apply to the use of this product at work.

IMPORTANT INFORMATION : FOR USE ONLY AS AN AGRICULTURAL HERBICIDE	
Crops:	Winter wheat
Maximum individual dose:	0.4 kg product per ha
Maximum number of applications:	One per crop
Latest time of application:	Flag leaf ligule just visible GS 39
READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.	

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the product.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

Wear eye/face protection.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

IN CASE OF CONTACT WITH EYES, rinse immediately with plenty of water and seek medical advice.

Environmental protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer either a LERAP must be carried out in accordance with PSD published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

To protect aquatic organisms, respect an unsprayed buffer zone distance to surface waters bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application. Aim spray away from water.



Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

KEEP OUT OF REACH OF CHILDREN.

This material and its container must be disposed of in a safe way.

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

GREENCROP TECHNOLOGY LTD. Unit F10, Bracetown Business Park CLONEE Co. Meath Ireland Tel: (00 353) 1 8210127 Fax: (00 353) 81 8411084	PROTECT FROM FROST Net contents: 1 kg Batch No:
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Conditions of Supply

All goods supplied by us are of high grade and we believe them to be suitable but as we cannot exercise control over their storage handling mixing or use or of the weather conditions before during and after application which may affect the performance of the goods all conditions and warranties statutory or otherwise as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us or resellers for any failure in performance damage or injury whatsoever arising from their storage handling application or use; these conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

RESTRICTIONS

Do not apply Greencrop Doonbeg 2 to crops undersown with grasses, clover, other legumes or any other broadleaved crop.

Do not apply Greencrop Doonbeg 2 to a crop suffering from stress such as drought, water-logging, pest or disease attack, nutrient deficiency, soil compaction or other factors limiting normal growth.

Avoid spray drift onto non-target crops or onto ponds, waterways or ditches.

Do not apply if rain is imminent. Do not apply during periods of frosty weather.

Do not tank mix with chlorpyrifos. Allow at least 14 days before or after chlorpyrifos treatments.

TANK MIXES AND SEQUENCES

There are some restrictions on applying other ALS-inhibiting herbicides to the same crop either in sequence or in tank mixture with Greencrop Doonbeg 2. Only one "ALS inhibiting" herbicide can be applied to the same crop in sequence or in tank mixture with Greencrop Doonbeg 2. For information on permitted tank mixes or sequences with other ALS-containing products, refer to the intended sequence-product label.

WEEDS CONTROLLED

This product contains mesosulfuron-methyl and iodosulfuron-methyl which are ALS inhibitors, also classified by the Herbicide Resistance Action Committee as 'Group B'. Use only as part of a resistance management strategy that includes cultural methods of control and do not use ALS inhibitors as the sole chemical method of grass-weed control. Strains of some annual grasses (e.g. black-grass, wild oats and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

Greencrop Doonbeg 2 controls black-grass, rye-grasses and certain other grass and broad-leaved weeds. Uptake is mainly by foliar absorption with absorption from the soil solution being of secondary importance. Weed growth is inhibited soon after absorption, although control may not be apparent for 3 or more weeks, depending upon the weed species and growing conditions, particularly the influence of the prevailing weather. Owing to uptake being mainly through the leaves, treatment is not restricted by soil type provided that a firm, fine, moist seedbed allowing good growth has been attained. The use of Greencrop Doonbeg 2 is not recommended against light weed infestations where weeds are not expected to be a limit to yield.

WEEDS CONTROLLED

The following grass and broad-leaved weeds are susceptible to an application of Greencrop Doonbeg 2 post-emergence of the weeds when applied under favourable conditions, to the growth stages indicated:

Black-grass (susceptible strains)	flag leaf just visible (GS39)
Chickweed, common	8 true-leaves
Mayweed spp.	8 true-leaves
Meadow-grass, annual	GS31
Meadow-grass, rough-stalked	GS31
Rye-grass, Italian	GS30
Rye-grass, perennial (from seed)	GS31
Wild-oat	GS29

WEED CONTROL STRATEGY

Greencrop Doonbeg 2 should be used as part of a wide-ranging strategy to counter the development of weeds resistant to herbicides. The presence of enhanced metabolism herbicide resistant populations of Italian rye-grass may lead to unacceptable levels of control. To reduce the risk of resistance developing or if resistance to ALS inhibiting herbicides is suspected, apply the treatment to young, actively growing weeds.

Key aspects of the Greencrop Doonbeg 2 resistance management strategy are:

- Always follow Weed Resistance Action Group (WRAG) guidelines for preventing and managing herbicide resistance.
- Do not use Greencrop Doonbeg 2 as a stand-alone treatment for black-grass, rye-grass or common chickweed. For the control of grasses, use Greencrop Doonbeg 2 in a tank-mixture or sequence with herbicide(s) having a non-ALS inhibiting mode of action.
- If possible, apply Greencrop Doonbeg 2 as soon as the susceptible weed stage has been reached and before GS31 of grass weeds.
- Do not use Greencrop Doonbeg 2 as the sole means of grass weed or broad-leaved weed control in successive crops.
- Integrate grass and broad-leaved weed herbicides with non-ALS inhibiting modes of action into herbicide programmes throughout the cropping rotation.
- Use crop rotation and other cultural control measures to prevent and manage herbicide resistant grass weeds.
- Monitor treatment efficacy and seek professional advice if areas of poor weed control occur that appear otherwise inexplicable.

RATE OF APPLICATION

Apply Greencrop Doonbeg 2 at 400 g/ha with the addition of the authorised adjuvant such as Clayton Union (A0686) or adjuvant no. A0617. Add the authorised adjuvant at 0.5 litres per 100 litres spray volume.

TIME OF APPLICATION

Crop stage	From 2-leaves up to flag leaf ligule visible stage GS39.
Weed stage	Grass weeds: from 1 leaf stage up to the latest susceptible stage. Broad-leaved weeds: from 1 true leaf stage up to the latest susceptible stage.
Remarks	Treat at the earliest practicable opportunity after the emergence of the susceptible grass weed burden is judged to be complete, noting that weed emergence can be erratic on dry or imperfect seedbeds. Best results are usually obtained whilst the majority of weeds are still small. Weeds germinating after application will not be controlled by this treatment. See WEED CONTROL for the latest susceptible stages.

CROP, SOIL AND WEATHER FACTORS

When the weather is mild and the soil is moist, encouraging active growth. Avoid application if the soil is very dry. Residual soil activity is also limited in dry soils.

Do not apply during periods of cold weather, frost or snow or if cold weather has been forecast.

Do not apply to wet foliage or if rain is imminent.

Do not apply to crops under any growing stress such as drought, water-logging, physical damage, pesticide toxicity, improper nutrition or other disorder until the stresses have been relieved and normal growth has resumed.

Do not treat broadcast-sown crops until firmly rooted.

If crops are treated whilst under any stress, they may react by displaying a temporary yellowing.

Do not roll or harrow crops for at least 7 days before or after treatment.

APPLICATION

Apply the recommended dose as a FINE/MEDIUM (BCPC) spray in 200-300 l/ha water through a conventional hydraulic horizontal boom sprayer fitted with flat fan nozzles, using the highest spray volume in the most dense crops or when weeds are numerous or large. Good coverage of the weeds with spray is essential. Avoid spray drift onto nearby crops. Do not overlap spray swaths.

SPRAY DRIFT AND GROUND CONTAMINATION

Avoid damage by drift onto broad-leaved plants outside the target area or onto ponds, waterways and ditches. Take especial precautions to prevent drift onto any susceptible crop. All broad-leaved crops such as tomatoes, lettuce, oilseed rape, vegetables, turnips, swedes, peas, beans, glasshouse crops, fruit, ornamentals etc. are susceptible by spray contact or ground contamination. Do not spray in windy weather. Emptying or cleaning of spray machinery must not be conducted on cropped land or land intended for cropping.

SPRAY MIXING

Half-fill the spray tank with clean water and put under agitation. Slowly add the required weight of Greencrop Doonbeg 2 through the filling aperture. Add the required volume of adjuvant. Top up the tank with water and keep under agitation until sprayed out. Do not allow mixed spray to stand. When co-applying with compatible products, add each separately to the spray tank, mixing Greencrop Doonbeg 2 in the spray tank first.

FOLLOWING CROPS

In the event of crop failure for any reason, only winter wheat may be sown as the replacement crop within the same cropping year.

Following normal-term harvest, winter wheat, winter barley or winter oilseed rape may be sown in the autumn of the harvest year; spring wheat, spring barley, spring oilseed rape or sugar beet may be sown in the following spring. Ploughing to at least 15cm (6") must precede the sowing of oilseed rape otherwise crop damage might occur.

EQUIPMENT MAINTENANCE

Immediately after use wash the spraying machine and all utensils thoroughly with clean water and a proprietary cleaning agent, used according to its label instructions, recommended for the cleaning of spraying equipment after application of sulfonyleurea-containing products.

Traces of herbicide left in the sprayer may result in damage to other crops sprayed with the equipment at a later date.
