

ALIGRAN WDG

A water dispersible granular herbicide for the control of a range of annual grass weeds and many annual broad-leaved weeds in Winter and Spring Wheat (Excluding DURUM) and Winter Barley.

CONTAINS 82.5% ISOPROTURON

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

**STATUTORY CONDITIONS RELATING TO USE
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

For use on	Max. Individual Dose	Max. No. of Treatments	Latest time of application
Winter Wheat and Winter Barley Post Emergence ONLY	3kg/ha	1 per crop	Before 2 nd node detectable
Autumn Drilled Spring Wheat Post Emergence ONLY	2.5kg/ha	1 per crop	Before 2 nd node detectable
Winter Rye and Triticale	3kg/ha	1 per crop	PRE EMERGENCE

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT when handling the concentrate. (i.e. disposable filtering facepiece respirator).

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

DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.

READ ALL PRECAUTIONS BEFORE USE.

STORE IN A DRY PLACE

MAY CAUSE SENSITISATION BY SKIN CONTACT

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ALIGRAN WDG

GENERAL INFORMATION

Aligran WDG is a water dispersible granular formulation containing isoproturon. It is a residual herbicide with some contact activity controlling many annual grass-weeds, including black-grass and annual meadow-grass as well as a range of annual broad-leaved weeds in cereal crops. It may be applied from EARLY POST-EMERGENCE of the crop in the autumn through to the following spring depending on the size of the target weeds.

DIRECTIONS FOR USE:

Crops should be established in the normal way by drilling to a depth of 25mm, ensuring that the seed is well covered. Broadcast crops should be allowed to establish well-developed root systems and should meet all other conditions on the label.

Only healthy crops should be treated. Crops that are showing any symptoms of stress from drought, water logging, pest or disease infestation or prolonged frost should NOT be treated until the cause has been established and the effect has been remedied.

Early drilled crops e.g. September drilled may be prone to damage if spraying should precede or coincide with a period of rapid growth in the autumn.

CROPS:

ALIGRAN WDG must be used only on the following crops at the timing specified.

Crops	Application Timing	Restrictions
Winter Wheat and Winter Barley	Apply AFTER Crop Emergence but before the 2 nd node detectable stage.	See weed growth stage for susceptibility
Spring Wheat (Autumn Drilled)	Apply AFTER Crop Emergence and after January 1 st but before the 2 nd node detectable stage.	Use maximum 2.5kg product per hectare.
Winter Rye and Named Varieties of Triticale	PRE-EMERGENCE	Use only on Aquarius, Bokolo, Clercal, Lasko, Newton, Salvo, Torrs, Animo, Ashill Pearl, Lavaszpatonai, Dominant, Rheidol, Tetragorozow.

WEED CONTROL

ALIGRAN WDG may be applied before or after weed emergence. Weed control is mostly by root uptake but there is some foliar action. Weeds will be controlled using the following dose rates up to the growth stages outlined in the table on the next page.

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ANNUAL GRASS-WEEDS

Dose rate (kg/ha) and Application Timing	1.9 kg/ha A&S	2.5kg/ha A	3.0kg/ha A	2.5kg/ha S
Annual Meadow-grass	Beginning of Tillering	Early tillering	Early tillering	
Barren brome			3 leaves **	
Black-grass			Early tillering *	
Loose silky-bent			Early tillering	
Rough Meadow-grass		Early tillering	Early tillering	
Ryegrasses#			Early tillering	
Timothy			3 leaves **	
Wild Oats			3 leaves ***	
Yorkshire-fog			Early tillering	

ANNUAL BROAD-LEAVED WEEDS

Dose rate (kg/ha) and Application Timing	1.9 kg/ha A&S	2.5kg/ha A	3.0kg/ha A	2.5kg/ha S
Charlock		Young Plant	Young Plant	
Common chickweed	6 leaves	Young Plant	Young Plant	
Common hemp-nettle	2 leaves	Young Plant	Young Plant	
Common poppy		Young Plant	Young Plant	
Corn marigold	2 leaves	Young Plant	Young Plant	
Corn spurrey			Young Plant	
Fat-hen			Young Plant	
Groundsel			Young Plant	
Mayweed	6 leaves	Young Plant	Young Plant	
Parsley Piert		2 leaves	2 leaves	
Shepherds-purse		Young Plant	Young Plant	
Small-nettle			Young Plant	
Weed beet			Young Plant	

* Useful control up to the jointing stage as long as soil is moist and growth active.

** Useful control post-emergence only.

*** Useful control both pre- and post-emergence.

+ Meadow-grass may begin to tiller when very small.

Heavy infestation of Ryegrasses may NOT be satisfactorily controlled.

RESISTANT BLACK-GRASS:

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 such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, BAA your distributor, crop advisor or product manufacturer.

BARREN BROME:

Applications of ALIGRAN WDG alone may not prevent seed return or yield loss where Barren brome is a problem. They should however prevent lodging and interference with harvesting. Where Barren brome infestation is high a more reliable method of control is to use a programme of treatments, where possible preceded by conventional mould-board ploughing to a depth of at least 13cm.

Resistant Weeds: Cleavers, Field Gromwell, Field pansy, Geranium spp, Perennial grassweeds, Perennial broad-leaved weeds and Speedwell spp.

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RATES OF USE/TIMING:

Black-grass other annual grass-weeds and annual broad-leaved weeds

Autumn/Winter applications must be made POST-EMERGENCE of the crop at 3.0 kg/ha until the 31st December. Spring applications should be applied at 2.5kg/ha after the 1st January. Treat black-grass as early as possible up to early tillering of the weed. Useful control can be obtained even when the applications are delayed up to the jointing stage, but at these later timings the level of control depends heavily on soil moisture and active growth. Weed control may be reduced as soils dry out in the spring.

Meadow-grasses and broad-leaved weeds

Autumn/Spring applications must be made POST-EMERGENCE of the crop at 2.5 -1.9kg/ha depending on weed size and species. Use the lower rate only where the soil is moist and the Meadow-grasses are small and represent a low even infestation. The higher dose rate is more reliable offering control of larger meadow-grasses and a wider spectrum of broad-leaved weeds. The higher rate will be more persistent. Autumn applications may not control spring germination of some of the listed weeds.

APPLICATION:

ALIGRAN WDG should be applied in 200- 400 litres of water per hectare. Apply as a MEDIUM SPRAY (BCPC definition) at pressures of 2.5 bar. LOW VOLUME application systems can apply in 112 litres water per hectare as a MEDIUM SPRAY at pressures of 2.5 bar. Use F80 or FI10/08/2.5 nozzles at a speed of 6- 10 mph. Use 80 mesh in line filters and 50 mesh filters at the nozzle. ONLY APPLY LOW VOLUME IF CONDITIONS ARE OPTIMAL. Take great care to avoid spraying or spray drifting over surface water or ditches. Use buffer strips where practicable.

MIXING:

Add the required quantity of AL1GRAN WDG to the half-filled spray tank. The agitation system should be working throughout the entire mixing and spraying operations. Top up with the required volume of clean water. Spray carefully avoiding overlapping spray swaths. After spraying clean all spraying and measuring equipment carefully avoiding surface water contamination. Take great care to avoid washings and any spillage entering drains or ditches. *Spillage of dry granular product can be easily retrieved and should be recovered immediately spillage occurs.*

WEATHER:

Do not apply ALIGRAN WDG to waterlogged soils. In seasons of above average rainfall or where heavy rain falls shortly after application the overall level of weed control may be reduced. Do not treat if frost is imminent or after the onset of frosty weather otherwise the crop may suffer a growth check and transient discolouration from which it normally recovers. Prolonged dry weather after application may slow or reduce the weed control effect. This is especially important in the spring.

SOILS:

Good weed control depends on burying or dispersing previous crop residues during the preparation of a fine firm seedbed. The seedbed should NOT contain clods greater than first size. The residual action of ALIGRAN WDG may be reduced on soils with more than 10% organic matter. On these soils only spring applications are recommended. Loose, puffy seedbeds should be consolidated before drilling to avoid seed being drilled too deep, as this may reduce crop vigour and leave the crop liable to damage. Heavy clay soils or those, which are prone to cracking, should be ploughed as deeply as possible to remove the cracks from the soil profile. Consolidated seedbeds will slow down the movement of isoproturon-based herbicides through the soil profile and improve absorption and maximise efficacy of the application. Do NOT use ALIGRAN WDG where soils remain cracked and open. Take all precautions to minimise the risk of run-off through field drains. If you are in any doubt contact your supplier for the latest guidelines produced under the Isoproturon Stewardship Programme to Protect Water Quality.

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CAUTIONS:

In the spring do not roll 7 days before or after application.

Do not harrow 7 days before or at any time after application.

Control of grass-weeds particularly on silty soils may be reduced if weeds germinate below the zone where the chemical is present.

On free draining soils (and those that are stony or gravelly) there is a risk of crop damage and reduced weed control especially if heavy rain falls soon after treatment.

PRECAUTIONS:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD when handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT when handling the concentrate. (i.e. disposable filtering facepiece respirator).

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY

WASH HANDS AND EXPOSED SKIN before meals and after work.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

EMPTY CONTAINER COMPLETELY and dispose of safely.

DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.