



DHM Agrochemicals



BINDER

HERBICIDE

A selective post-emergence herbicide for use on winter and spring cereals, maize and grassland to control a range of perennial and annual weeds, including cleavers, common chickweed, field forget-me-not, common hemp-nettle, black bindweed, docks and common nettle.

An emulsifiable concentrate containing 200 g/litre fluroxypyr (20.4% w/w) as the 1-methyl heptyl ester

RISK AND SAFETY INFORMATION

Flammable liquid and vapour
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation
May cause drowsiness or dizziness
Very toxic to aquatic life with long lasting effects

Keep away from heat / sparks / open flames / hot surfaces. - No smoking
Avoid breathing vapours or spray
Wash hands thoroughly after handling
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves / protective clothing / eye protection / face protection

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

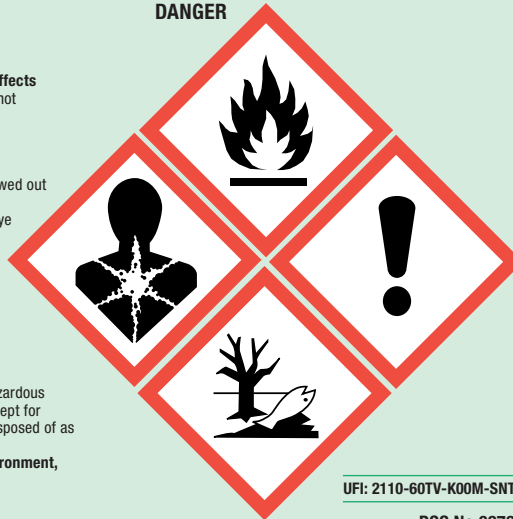
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
DO NOT induce vomiting

In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction
Dispose of contents/container to a licenced hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

To avoid risks to human health and the environment, comply with the instructions for use.

For professional use only

DANGER



UFI: 2110-60TV-K00M-SNTU

PCS No 06737

Batch No: see bottle

**Contents :
5 litres**

Approval holder:
DHM Agrochemicals
Castle Lodge,
Kilgobbin Road, Dublin 18
Telephone: (01) 2952377
Fax: (01) 2959399

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SAFETY PRECAUTIONS

OPERATOR PROTECTION

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

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

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment

WASH CONCENTRATE from skin or eyes immediately.

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

WHEN USING, DO NOT DRINK, EAT OR SMOKE.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical attention.

IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

ENVIRONMENTAL PROTECTION

Livestock must be kept out of treated areas for at least 7 days following treatment. IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.

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.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

STORAGE AND DISPOSAL

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

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFF.

DO NOT RE-USE CONTAINER for any purpose.

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.

MIXING AND SPRAYING

The rate of use of BINDER is dependent on the weed, the size of weed and the tank-mix used as detailed below. Using standard nozzles the recommended spray volume is 150 to 400 litres water per hectare. The lowest volume should only be used in very open crops on small weeds. On later applications where the crop is dense the spray volume should be increased to 400 litres water per hectare. The minimum recommended pressure is 2 to 3 bars.

Apply BINDER as a MEDIUM spray as defined by the BCPC system.

Add the appropriate amount of BINDER to clean water in a half-filled sprayer tank, mix thoroughly and add the remainder of the water. The spray mix must be used immediately and agitated continuously during mixing and until application is complete.

CROP SPECIFIC INFORMATION

BINDER is a translocated herbicide taken up by the leaves of weeds. It is essential that the target weeds have fully emerged before application and that good spray of the weed foliage is achieved. Weeds which emerge after application are not controlled.

Best results are achieved against small weeds growing actively under warm, moist conditions. These conditions are particularly important for the control of cleavers. Ensure that crops are vigorous with growth unaffected by frost, pests, disease, nutrient deficiency or moisture stress before treatment. Do not treat waterlogged crops or crops under drought stress.

CEREALS AND MAIZE

Spring treatments (from 1st March onwards on winter crops)

Crop	Timing of Application	Rate L/ha	Weeds Controlled & Maximum Growth Stage for Control
Winter Wheat Winter Barley	Apply from the 2 leaf stage (Zadoks 12) until before flag leaf sheath opening stage (Zadoks 47)	1.0	Cleavers (flowering) Common Chickweed (flowering) Common hemp-nettle (flowering) Black Bindweed (6 leaves) Red dead-nettle (4 leaves) Knotgrass (2 leaves) Common Fumitory (2 leaves)
Winter Oats Winter Rye Durum Wheat Triticale*	Apply from the 2 leaf stage (Zadoks 12) until before the second node detectable stage (Zadoks 32)	1.0	Groundsel (checked at 2 leaves) Mayweeds (checked at 2 leaves) Redshank (checked at 2 leaves) Common field-speedwell (checked at 2 leaves) Ivy-leaved Speedwell (checked at 2 leaves)
Spring Wheat Spring Barley	Apply from the 2 leaf stage (Zadoks 12) until before flag leaf sheath extending stage.	0.75	Cleavers (10 cm) Common Chickweed (10 cm) Common hemp-nettle (10 cm) Black Bindweed (4 leaves)
Spring Oats	Apply from the 2 leaf stage (Zadoks 12) until before second node detectable stage.	0.75	Knotgrass (2 leaves) Common Fumitory (2 leaves) Groundsel (checked at 2 leaves) Mayweeds (checked at 2 leaves) Redshank (checked at 2 leaves) Common field-speedwell (checked at 2 leaves) Ivy-leaved Speedwell (checked at 2 leaves)
Forage maize & Grain maize (open crops)**	From 3-6 leaves unfolded and before the crop is 20 cm high and before any buttress roots start to develop at the first node.	1.0	Black nightshade (cotyledons up to 6 true leaves), use 200-300 L water

* Do not tank-mix with any herbicide for use on triticale.

** DO NOT apply to maize beyond the recommended growth stages or once buttress roots have formed. Do not apply in tank-mix with any other product. Avoid boom overlap.



Autumn treatments – winter wheat and winter barley

Crop	Timing of Application	Rate L/ha	Weeds Controlled & Maximum Growth Stage for Control
Winter barley Winter wheat	From the crop having 2 leaves unfolded until 1st February. Do not treat rapidly developing crops beyond the fully tillered stage. If this occurs before 1st February delay application until after 1st March.	0.75	Cleavers (to 5 cm) Common chickweed (to 5 cm)

Two-way mixtures with other broad-leaved weedkillers.

BINDER is also compatible in two-way mixture with approved salt formulations of MCPA. Refer to the product label for weed susceptibilities, timing of application, etc. for this mixture. The addition of the recommended rate of approved salt formulations of MCPA to BINDER is recommended where weeds such as common poppy, fat-hen and shepherd's-purse are present.

The timing of application of BINDER mixtures depends on the tank-mix partner but mixtures should not be applied after the first node detectable stage (Zadoks 31).

GRASSLAND

Newly sown and established grass leys and permanent pasture may be treated with BINDER for the control of annual and perennial broad-leaved weeds when weeds are actively growing. Do not spray swards containing clovers or other legumes if there are important constituents of the sward.

Annual weeds - newly sown grass leys

Application of BINDER at 0.75 litres/ha in a spray volume of 200 to 400 litres of water per hectare to give good coverage of the weeds will control common chickweed up to 50 mm. Grasses should have at least 3 fully expanded leaves.

Perennial weeds - established grassland

Apply BINDER at 2.0 litres/ha in a spray volume of 300 to 400 litres of water per hectare to give good coverage of the weeds.

WEEDS	Rate of use L/ha	Optimum timing of application
Common nettle	2.0	Spray when actively growing but before flowering (normally up to mid-June). A reduction in top growth only can be expected.
Dandelion	2.0	Spray when actively growing but before flowering (normally up to mid-June).
Dock (curled and broad leaved)	2.0	Treat in the Spring when the docks are at the rosette stage (broad-leaved) 15 to 20 cm high. If the grass has been cut for hay or silage or grazed over winter, leave for 2 to 3 weeks to allow sufficient re-growth to occur before spraying. On large well established docks, or where there is high reservoir of seed in the soil, a second dose the following year may be required.

CROP FAILURE

In the event of a cereal crop failure the following crops can be sown:

Spring cereals, spring oilseed rape, maize, onion, cultivated poppies and new leys. A minimum interval of 5 weeks is required and there are no cultivation restrictions.

ROTATIONAL CROPS

All crops can be sown following an application of BINDER.

COMPATIBILITY

BINDER should be applied in tank-mix with other products only if any requirements or restrictions on the other product label do not conflict with the requirements or restrictions for BINDER. Tank-mixes should not be allowed to stand in the tank and agitation should be maintained at all times.

Crops, timings, etc. can be affected by the rate and type of tank-mix partner used. Always refer to the product label of the tank-mix partner.

Mix BINDER in the spray tank first except when mixing with water dispersible granules, wettable powders or suspension concentrates (flowables). Each product should be added to the half-full sprayer tank and be fully dispersed before the addition of the next product.

BINDER can be tank-mixed with a number of other herbicides to broaden the spectrum of weeds controlled. These other herbicides may have crop, timing, varietal and other restrictions which are different to those of BINDER. Tank-mixes should only be applied within label recommendations of every product in the mix.

For more information on possible tank mixtures, contact your distributor.

NOTES

Apply to dry foliage.

For best results apply BINDER when weeds are actively growing. In newly-sown crops, seedling and small weeds are more susceptible to BINDER and will respond quicker



when treated at this stage. Vigorous crop competition enhances control of the more resistant weeds and prevents weeds which germinate after application from becoming a problem in the crop.

Crops undersown with grass may be sprayed provided the grasses are tillering.

Do not apply to crops undersown with clover or other legume-containing mixtures.

Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable with higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visual sign of the dead weed.

Do not include treated ragwort in hay or silage crops.

BINDER will only produce optimum results when the weeds are actively growing and the crop competitive. This is particularly important with cleavers.

BINDER is of low volatility and is therefore not subject to vapour drift.

Do not spray in windy weather and avoid drift onto non-target crops/areas.

Do not treat crops under stress. Stress can be caused by many factors including frost, drought, waterlogging, trace element deficiency, disease and pest attack etc.

Do not spray if night temperatures are low or if frost is imminent.

BINDER used alone is rainfast one hour after application.

Do not roll or harrow 7 days before or after treatment.

Wash equipment thoroughly with water and detergent immediately after use.

Traces of BINDER can cause harm to susceptible crops sprayed later.

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 the weather conditions before, during or 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. No responsibility will be accepted by us or re-sellers 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.