



ARDEE® 360-K

This product is a soluble concentrate containing 360 g/l glyphosate, present as 441g/l (35.3% w/w) of the potassium salt of glyphosate.

ARDEE 360-K is a foliar applied translocated herbicide for the control of annual and perennial grass and broad-leaved weeds before sowing or planting of all crops.
For use pre-emergence and pre-harvest in cereals, oilseeds and certain other crops, for destruction of grassland, and the control of emerged weeds in stubbles, fallow, orchards, forestry, and non-crop areas.

FOR USE ONLY AS AN AGRICULTURAL/ HORTICULTURAL/ INDUSTRIAL NON-SELECTIVE HERBICIDE

**(Please see inside for Directions for Use)
FOR PROFESSIONAL USE ONLY**

GROUP	9	HERBICIDE
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SAFETY INFORMATION

Toxic to aquatic life with long lasting effects.

Avoid release to the environment.

Keep out of reach of children.

OPERATOR PROTECTION

Avoid breathing spray.

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

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

IF ON SKIN: Gently wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

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).

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

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean 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.

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PCS No: 05724

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PROTECT FROM FROST

20 Litres e

PRECAUTIONS

In case of emergency contact the Poisons Information Centre Tel: +353 1 8092566 or +353 1 8379964.
If medical advice is needed, have product container or label at hand.

STORAGE AND DISPOSAL

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

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

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

DIRECTIONS FOR USE

The following table pertains to and forms part of the statutory conditions relating to use

FOR USE ONLY AS AN AGRICULTURAL/ HORTICULTURAL/ INDUSTRIAL NON-SELECTIVE HERBICIDE FOR PROFESSIONAL USE ONLY				
Specific weeds controlled: Control of a range of annual and perennial grass and broad-leaved weeds.				
Crop or situation	Maximum individual dose of product	Maximum number of applications	Maximum total dose	Latest time of application
Post-planting & pre-crop emergence: Barley, bulb onion, combining pea, durum wheat, field bean, leek, linseed, mustard, oats, oilseed rape, sugar beet, swede, turnip, vining pea, wheat	1.33 L/ha	-	1.33 L/ha/crop	Pre-emergence of crop
* Pre-harvest - Wheat, barley, oats	4.0 L/ha	1	4.0 L/ha	7 days before harvest
* Pre-harvest - Oilseed rape, linseed	4.0 L/ha	1	4.0 L/ha	14 days before harvest
* Pre-harvest Peas (combining)	4.0 L/ha	1	4.0 L/ha	7 days before harvest
Stubbles (including destruction of cover crops)	4.0 L/ha	-	4.0 L/ha/year	2-5 days pre-cultivation/ drilling/planting
Green cover for land not being used for production (fallow)	4.0 L/ha	-	4.0 L/ha/year	2-5 days pre-cultivation/ drilling/planting
Grassland destruction	4.0 L/ha	1 per year	4.0 L/ha	5 days before cutting/ grazing
Apples, pears	5.0 L/ha	-	5.0 L/ha/year	Post-harvest before green cluster stage
Cherries, plums	5.0 L/ha	-	5.0 L/ha/year	After leaf fall/before white-bud stage
Asparagus	5.0 L/ha	-	5.0 L/ha	Pre-emergence
Non-cropped areas (hard and permeable surfaces)	5.0 L/ha	-	5.0 L/ha/year	-
Forestry (Pre and post planting)	4.0 L/ha	-	4.0 L/ha	-
Other specific restrictions: * May only be applied when crop is > BBCH 87 and grain/seed moisture < 30 %				

Method of application:	Tractor mounted or powered hydraulic sprayer/knapsack
Particulars of direct or indirect adverse effects:	Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
Directions for the safe disposal of the plant protection product and of the packaging.	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.
Restriction on category of user	Professional use only
Specific uses:	See directions for use table

GENERAL INFORMATION

ARDEE 360-K is a foliar acting herbicide that controls annual and perennial grasses and most broad-leaved weeds when used as directed. It is translocated from treated vegetative growth to underground roots, rhizomes or stolons. Leaf symptoms, being a reddening then yellowing of the foliage, are first seen on grass weeds but take longer to appear on broad leaved weeds.

It is particularly important that the weeds have sufficient leaf growth and are actively growing when treated.

Perennial grass weeds must have produced fresh leaves, which are green and vigorous. Common couch/scutch grass is most susceptible to ARDEE 360-K when it is tillering and when new rhizomes have begun to grow. This is usually when the plants have about 5 - 6 leaves, each with approximately 12-15cm (5-6") of new growth.

The majority of perennial broad-leaved weeds are most susceptible if treated when they are actively growing and are at or near flowering stage. Annual weeds should be actively growing with grasses having at least 5cm (2") of leaf and broad-leaved weeds at least two expanded true leaves when sprayed. Couch/scutch grasses and other grasses and broad-leaved weeds are less susceptible to ARDEE 360-K when growth is restricted by drought, waterlogging, frost, very high temperatures or natural dieback. Efficacy will be reduced if such conditions occur at or immediately after spraying.

Occasionally a slight check to crop growth may occur, particularly after direct drilling when crop seeds germinate amongst a mass of decaying foliage, stolons, rhizomes or roots. Thorough cultivations are necessary to disperse or bury decaying organic matter. Consolidate loose soils and ensure crops are adequately fertilised and appropriate measures are taken to prevent insect and fungal damage to the following crop, especially where following grassland.

Do not apply lime, fertiliser, farmyard manure, pesticides or similar materials within 7 days of ARDEE 360-K.

Note: ARDEE 360-K does not give acceptable control of horsetail (*Equisetum arvense*).

WEATHER CONDITIONS

A period of at least 6 hours and preferably 24 hours free of rain must follow spraying. Do not spray onto weeds suffering from drought stress as reduced control may occur. Do not spray in windy conditions as drift onto other crops or vegetation can cause severe injury or destruction. Do not spray during frosty weather that prevents active growth and can induce weed senescence.

WEED CONTROL PRE-EMERGENCE OF DRILLED CROPS

Weeds Controlled: Emerged annual, perennial and biennial weeds.

Seed must be drilled and drills firmly closed with a minimum 15 mm (½") of settled soil above the seed.

Annual weeds must be small when treated following direct drilling.

DO NOT ALLOW SPRAY TO CONTACT THE LEAVES OF ANY CROP

CAUTION: Ensure that spraying precedes ANY crop emergence.

Crop	Time and Method	Dose Rate
Barley, bulb onion, combining pea, durum wheat, field bean, leek, linseed, mustard, oats, oilseed rape, sugar beet, swede, turnip, vining pea, wheat, asparagus	Spray whilst the crop is dormant before ALL new spear emergence. Spray must not contact the spears/foilage of the crop. At least 15 mm of firmly settled soil must be covering crowns and spears. Spray up to 48h after drilling	All crops: 1.33 l/ha Asparagus: 5 l/ha Apply in 100-400 l/ha water

WEED CONTROL IN STANDING CEREAL CROPS (PRE-HARVEST)

Weeds Controlled: Couch/scutch grass (*Elymus repens*) Black bent (*Agrostis gigantea*)
Creeping bent (*Agrostis stolonifera*)
Onion couch (*Arrhenatherum elatius var. bulbosum*) in winter barley only - see Note.
Perennial broad-leaved weeds.

Crops: Winter and spring wheat, including durum wheat, and winter and spring oats destined for milling or feed.
Barley destined for malting or feed.

(Consult purchasers of crops grown on contract and prospective purchasers of malting grade barley before treatment).

DO NOT TREAT CROPS INTENDED FOR SEED.

DO NOT TREAT UNDERSOWN CROPS.

Time	Method	Dose Rate
Spray when the moisture content of the grain measures less than 30%. Target weeds must be green, actively growing and accessible to the spray	Spray the crop and weeds overall. Use high clearance tractors with narrow wheels and crop dividers. Adjust boom height to maximise spray retention on the target weeds. After spraying: Wait at least 7 days before harvesting. Treated straw must be chopped and incorporated or removed, after which normal cultivations may be resumed. Treated straw must be used for feed and litter but must not be used for horticultural purposes.	Annual weeds and grass or couch/scutch grass infestations up to 75 shoots/m²: 3 l/ha Couch/scutch-grass infestations, over 75 shoots/m²: 4 l/ha Perennial broad-leaved weeds; other perennial grasses: 4 l/ha Apply in 150 - 250 l/ha water

Note: to gain successful control of onion couch with ARDEE 360-K, the weed must be treated BEFORE the bulbous bases have matured. Application when the bulbous bases have matured will not prevent regeneration of the weed. Early ripening winter barley is the only crop likely to present an opportunity for pre-harvest control of onion couch.

WEED CONTROL IN STANDING OILSEED RAPE AND LINSEED (PRE-HARVEST)

Weeds Controlled: Couch/scutch grass (*Elymus repens*)
Creeping bent (*Agrostis stolonifera*)

Black bent (*Agrostis gigantea*)
Perennial broad-leaved weeds

Crops: Oilseed rape, winter or spring.
Linseed, winter or spring

This treatment is suitable only for uniform, evenly maturing crops proceeding to harvest in prime condition.
DO NOT TREAT CROPS INTENDED FOR SEED

Time	Method	Dose Rate
<p>Weed control: Spray 2-3 weeks before harvest when the natural ripening of the seed is progressing and the moisture content of the seed measures less than 30%.</p> <p>Target weeds must be green, actively growing and accessible to the spray.</p>	<p>Spray the crop and weeds overall. Minimise crop damage by use of high clearance tractors with narrow wheels and crop dividers.</p> <p>After spraying: Wait at least 14 days before harvesting oilseed rape. Wait at least 14 days before harvesting linseed. Direct combine harvest the crop when fit. Treated straw must be chopped and incorporated or removed, after which normal cultivations may be resumed.</p>	<p>Low-medium couch/scutch-grass infestations, up to 75 shoots/m²: 3 l/ha</p> <p>Medium-high couch/scutch-grass infestations, over 75 shoots/m²: 4 l/ha</p> <p>Perennial broad-leaved weeds; other perennial grasses: 4 l/ha</p> <p>Apply in 200 - 250 l/ha water.</p>

WEED CONTROL IN PEAS (PRE-HARVEST)

Weeds Controlled: Couch/scutch grass (*Elymus repens*)
Creeping bent (*Agrostis stolonifera*)

Black bent (*Agrostis gigantea*)
Perennial broad-leaved weeds

Crops: Peas (combining).
DO NOT TREAT CROPS INTENDED FOR SEED

Note: This treatment is intended for weed control.

Time	Method	Dose Rate
<p>Spray when the natural ripening of the seed is progressing and the moisture content of the seed measures less than 30%.</p> <p>Target weeds must be green, actively growing and accessible to the spray.</p>	<p>Spray the crop and weeds overall. Minimise crop damage by use of high clearance tractors with narrow wheels and crop dividers.</p> <p>After spraying: Wait at least 7 days before harvesting. Direct combine harvest the crop when fit. Treated straw must be chopped and incorporated or removed, after which normal cultivations may be resumed.</p>	<p>Low-medium couch/scutch grass infestations up to 75 shoots/m²: 3 l/ha</p> <p>Medium-high couch/scutch grass infestations over 75 shoots/m²: 4 l/ha</p> <p>Apply in 200-250 l/ha water.</p>

GREEN COVER ON LAND NOT BEING USED FOR CROP PRODUCTION (FALLOW)

Weeds controlled: Annual meadow grass (*Poa annua*) Italian ryegrass (*Lolium multiflorum*)
 Perennial ryegrass (*Lolium perenne*) Broadleaf dock (*Rumex obtusifolius*)
 Common nettle (*Urtica dioica*)

Crop: Any crop to follow application.

Users must ensure themselves compliant with the management rules of any grant-aided scheme before use; the guidance given in the following may be changed in future years.

Time	Method	Dose Rate
Spray whilst the green cover is actively growing at any time consistent with the prevailing weather conditions and within the management rules of any grant aided scheme. Deep-rooted perennial broad-leaved weeds are best controlled when well grown and are at or near flowering.	<ul style="list-style-type: none"> ● Do not cut or cultivate prior to applying this product in this situation. ● Spray before weeds set seed. ● After spraying do not cut, cultivate or prepare land for the next crop until permitted to do so by the management rules; in any event do not cut or cultivate for 2 days (after 1.5 l/ha) or 5 days (after 3-6 l/ha) after application. 	<p>Annual weeds and grasses: 1.5 l/ha</p> <p>Apply in 80-150 l/ha water for this dose rate (note - if the green cover is dense and/or well established, use the higher dose of 3 l/ha in 150-250 l/ha water - see below).</p> <p>Couch/scutch - grass infestations over 75 shoots/m² and black-grass: 3 l/ha</p> <p>Ragwort, deep-rooted perennial broadleaved weeds and fine-leaved grasses present: 4 l/ha</p> <p>Apply in 150-250 l/ha water</p>

GRASSLAND DESTRUCTION

Weeds Controlled: Rough stalked meadow grass (*Poa pratense*), Scentless Mayweed (*Matricaria inodorum*), Ivyleaf speedwell (*Veronica hederifolia*), Pathgrass (*Poa annua*), Common field speedwell (*Veronica persica*), Ryegrass (*Lolium multiflorum*), Couch grass (*Agropyron repens*), Perennial ryegrass (*Lolium perenne*), Broadleaf dock (*Rumex obtusifolius*), Common nettle (*Urtica dioica*), Field sowthistle (*Sonchus arvensis*)

Crop: Any crop to follow application.

Time	Method	Dose Rate
<p>Spray when grasses and weeds are actively growing at the following times and growth stages:</p> <p>Annual grasses and annual broad-leaved weeds:</p> <ul style="list-style-type: none"> • Spring, summer or autumn. • Annual grasses have at least 10cm (4") of green leaf. • Annual broad-leaved weeds have at least 2 expanded true leaves. <p>Perennial grasses and perennial broad-leaved weeds:</p> <ul style="list-style-type: none"> • Mid to late summer. • Perennial grasses have at least 12cm of leaf or 5 fully expanded leaves. • Perennial broad-leaved weeds have substantial leaf area or are near flowering. 	<ul style="list-style-type: none"> • Lightly cut or graze and allow regrowth for about 4 weeks until the recommended growth stages are reached. • Spray at the dose rate recommended for the weed or grass type. • Wait at least 5 days, when the leaves become yellowed, before removing the growth for conservation or by grazing as required, prior to cultivating or drilling. <p>Surface mats of old grassland must be thoroughly broken by cultivations before reseeding. Either defer seeding until the following spring to allow surface mats to decompose or apply 2.5 tonnes/ha (1 tonne/ac) of ground limestone to the surface mat not less than seven days after treatment followed by rotary cultivation to break the surface and incorporate the ground limestone into the soil. Seeding may be conducted as required thereafter provided that the seeds are in contact with mineral soil.</p>	<p>1-2 years old, only annual weeds and grasses: 3 l/ha</p> <p>2-4 years old, with perennial grasses: 4 l/ha</p> <p>Long leys e.g., 4-7 years old with perennial broad-leaved weeds: 4 l/ha</p> <p>Permanent grassland with ragwort or predominantly fine-leaved grasses: 4 l/ha</p> <p>Apply the recommended dose in 200-250 l/ha water.</p>

ORCHARDS

Weeds Controlled: Most annual and perennial weeds.

Crop	Time and Method	Dose Rate
<p>Established (minimum 2 years) trees of:</p> <p>Apple Pear Cherry Damson Plum</p>	<p>Apply as a directed MEDIUM or COARSE spray. Spray after leaf fall in autumn or before green cluster stage of apple and pear or white bud stage of stone fruit.</p> <p>Avoid spraying or allowing drift to contact the trunk above 30 cm (12") from the ground, or any branches. Spray must not contact any damaged bark.</p>	<p>5 l/ha</p> <p>Apply in 250 l/ha water.</p>

NATURAL SURFACES NOT INTENDED TO BEAR VEGETATION, PERMEABLE SURFACES OVERLYING SOIL, HARD SURFACES: General use on non-cropped areas around the farm and on amenity and industrial areas.

Weeds Controlled: Most annual and perennial weeds.

Area of use	Time and Method	Dose Rate
Around buildings. On industrial sites. Firebreaks. Pavements. Verges along public paths and roadways. Around traffic signs and advertising hoardings. Site preparation for landscaping projects; golf courses etc.	Apply at any time of the year when weeds are showing green leaf and are actively growing. Weeds germinating after application will not be controlled. Avoid drift onto crops, lawns, amenity plants or any desirable species. DO NOT USE UNDER GLASS OR POLYTHENE. DO NOT SPRAY HEDGE BOTTOMS.	General Use: 4 l/ha Perennial broad-leaved weeds present: 5 l/ha Mounted Hydraulic sprayers: apply in 80 - 250 l/ha water. Knapsack sprayers: apply in 100 - 250 l/ha water.

Important: If poisonous weeds, such as ragwort, had been present before treatment, then grazing animals, such as horses, should be kept clear of treated areas until such time that poisonous weeds have been removed.

FORESTRY/WOODLANDS

Use	Dose	Remarks
Pre planting: Most broad-leaved and grass weeds After planting: Most annual and perennial grasses and broad-leaved weeds. Moderate control of Broad-leaved woody weeds: bracken, beech, brush, bramble, sycamore, oak, hazel, willow, ash.	4 l/ha Apply in 80-250 l/ha water. Apply at the appropriate dose for the species to be treated as detailed below: 4 l/ha in 250 l/ha water 4 l/ha in 250 l/ha water	If the ground has been disturbed by forestry operations, allow the weeds to recover. Apply when weeds are showing green leaf and are actively growing. Wait at least 7 days before any cultivation or before planting trees. Apply by knapsack sprayer around fully guarded trees. It is ESSENTIAL to use a TREE GUARD for all applications made in the growing season. Treat bracken after frond tips are unfurled but pre-senescence. Treat heather late-August to end-September. Treat all other woody weeds June to August before leaf senescence, but after new growth of crop has hardened. Important: The time of hardening of leader growth in any year varies with species, location, and weather amongst other factors; hardening might occur from end-July up to October or even later. Always direct the spray away from leaders to avoid damage to Lammas growth.

Note: for ease of identification of treated trees a suitable commercially available water-soluble violet dye may be added to the prepared solution at 1 ml dye per 10 litres of prepared spray solution.

Note: Do not apply when rain is expected within 6 hours as, apart from unsatisfactory weed control, herbicide might be transferred to desirable species by rain splash or foliar contact.

MIXING

Tractor mounted sprayers

Pour the recommended quantity of ARDEE 360-K into the spray tank already half-filled with clean water and under agitation. Top up the spray tank with more clean water to the required level, whilst maintaining agitation. Spray out on the day of mixing.

Knapsack sprayers

Add the recommended quantity of ARDEE 360-K to the knapsack spray tank approximately one-third filled with clean water. Agitate thoroughly with a clean rod or by shaking after replacing the lid until thoroughly mixed. Add the required quantity of authorised surfactant and agitate again in the same manner until thoroughly mixed. Top up the tank with more clean water to the required level and agitate thoroughly before use. Spray out on the day of mixing.

DO NOT MIX, APPLY OR STORE ARDEE 360-K IN GALVANISED OR UNLINED MILD STEEL CONTAINERS OR TANKS. KEEP TANKS WELL VENTED AND CLEAR OF ALL SOURCES OF IGNITION.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

APPLICATION & SPRAY QUALITY

Conventional hydraulic sprayers

Knapsack sprayers

Prepared spray solution should be applied as a MEDIUM of COURSE quality spray (BCPC definition) through conventional hydraulic sprayers (tractor mounted/ drawn or knapsack) at nozzle pressures not exceeding 2.5 bar (35 psi).

ARDEE 360-K is a systemic weedkiller and is active at low doses. **Always take extreme care to avoid spray drift.**

DO NOT SPRAY in windy weather or near to desirable species or amenity plants as drift onto other crops or vegetation can cause severe plant injury or destruction.

SUITABLE NOZZLES FOR HYDRAULIC SPRAYERS

Sprayer type	Low Volume Application	Medium Volume Application
Tractor mounted or drawn	Hardi 4110-14 or equivalent nozzles	Hardi 4110-20; 4110-30; Lumark 04-F110; 08-F110 Teejet 11004; 11008 or equivalent nozzles
Knapsack	Cooper Pegler VLV Orange VLV Blue	Hardi 4110-16 Lumark 03-F110 Polyjet green; blue; red

SOILS

ARDEE 360-K may be used to control weeds on all mineral or organic soils or surfaces, including ash and gravel. Only weeds showing green leaf at the time of application can be killed. There is no residual activity with ARDEE 360-K.

FUTURE PLANTING

ARDEE 360-K has no long-lasting herbicidal activity in soils after application. Agricultural and horticultural quality soils may be planted up with trees after not less than 7 days after application, unless directed otherwise. Other amenity plants may be planted after the treated vegetation has died back or after cultivation. Under normal weather conditions, cultivations may be conducted 7 days after treatment. Under poor growing conditions wait for the characteristic red/yellow leaf symptoms to appear before cultivating.

CARE OF EQUIPMENT

Wash equipment thoroughly after use with water and cleaning agent to remove traces of herbicide. Traces of herbicide left in the equipment may damage or destroy crops sprayed with the same equipment at a later date.

STORAGE

Keep temperatures above 0°C but not exceeding 30°C.

KNAPSACK RATE RECKONER	
METRIC MEDIUM VOLUME APPLICATION	
Product Recommendation (Litres of product in l/ha of water)	Amount of ARDEE 360-K per 10 litres to treat 400 m²
3L in 250L per hectare	120 ml
4L in 250L per hectare	160 ml
5L in 250L per hectare	200 ml
LOW VOLUME APPLICATION	
Product Recommendation (Litres of product in l/ha of water)	Amount of ARDEE 360-K per 10 litres to treat 1000 m²
3L in 100L per hectare	300 ml
4L in 100L per hectare	400 ml
5L in 100L per hectare	500 ml