



Ardee

Contains 360 g/l (30.9% w/w) glyphosate as a soluble concentrate.

Ardee XL is a foliar applied translocated herbicide for the control of annual and perennial grass and broadleaved 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 FOR PROFESSIONAL USE ONLY (Please see inside for Directions for Use)

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.

PCS No: 06118 To avoid risks to human health and the environment, comply with the instructions for use.



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PROTECT FROM FROST



20 Litres

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				
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	7	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 %

Specific weeds controlled: Control of a range of annual and perennial grass and broad-leaved weeds.

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 XL 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 XL 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 grass and broad-leaved weeds are less susceptible to Ardee XL 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 XL.

Note: Ardee XL 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 $(\frac{1}{2})$ 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,	Spray whilst the crop is dormant before ALL new spear emergence.	All crops: 1.33 l/ha
leek, linseed, mustard, oats, oilseed rape, sugar beet,	Spray must not contact the spears/foliage of the crop. At least 15 mm of firmly settled soil must be	Asparagus: 5 l/ha
swede, turnip, vining pea, wheat, asparagus	covering crowns and spears. Spray up to 48h after drilling	Apply in 100-400 l/ha water

V	VEED	CONTROL IN STANDING CEREAL CRO	OPS (PRE-HARVEST)	
Weeds Controlled:	Cree Onio	ch/scutch grass (Elymus repens) eping bent (Agrostis stolonifera) on couch (Arrhenatherum elatius var. bulbosum) in ennial broad-leaved weeds.	Black bent (Agrostis gigantea) n winter barley only - see Note.	
Crops:	Barle purc	Iter and spring wheat, including durum wheat, and winter and spring oats destined for milling or feed. Itely destined for malting or feed. (Consult purchasers of crops grown on contract and prospective chasers of malting grade barley before treatment). NOT TREAT CROPS INTENDED FOR SEED. DO NOT TREAT UNDERSOWN CROPS.		
Time		Method	Dose Rate	
Spray when the moisture content of the grain meas less than 30%.	ures	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.	Annual weeds and grass or couch/ scutch grass infestations up to 75 shoots/m²: 3 l/ha	
Target weeds must be greatively growing and accessible to the spray.	en,	After spraying: Wait at least 7 days before harvesting. Treated	Couch/scutch-grass infestations, over 75 shoots/m²: 4 l/ha	
		straw must be chopped and incorporated or removed, after which normal cultivations may	Perennial broad-leaved weeds; other perennial grasses: 4 l/ha	

Note: to gain successful control of onion couch with Ardee XL, 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.

Apply in 150 - 250 I/ha water.

be resumed. Treated straw must be used for

feed and litter, but must not be used for

horticultural purposes.

WEE	D CONTI	ROL IN STANDING OILSEED RAPE AND L	INSEED (PRE-HARVEST)	
Weeds Controlled:		. ,	lack bent (Agrostis gigantea)	
_			erennial broad-leaved weeds.	
Crops:		d rape, winter or spring.		
	This tre	d, winter or spring atment is suitable only for uniform, evenly maturing IT TREAT CROPS INTENDED FOR SEED.	crops proceeding to harvest in prime condi	ition.
Time		Method	Dose Rate	
Weed control: Spray 2	-3 weeks	Spray the crop and weeds overall. Minimise	Low-medium couch/scutch-grass	
before harvest when the	e natural	crop damage by use of high clearance tractors	infestations, up to 75 shoots/m ² :	3 I/ha
ripening of the seed is		with narrow wheels and crop dividers.		
progressing and the mo		Aften en mercinar	Medium-high couch/scutch-grass	4 l/ha
less than 30%.	asures	After spraying: Wait at least 14 days before harvesting oilseed	infestations, over 75 shoots/m ² :	4 I/na
1655 tilali 50 /0.		rape.	Perennial broad-leaved weeds; other	
Target weeds must be o	reen,	Wait at least 14 days before harvesting linseed.	perennial grasses:	4 I/ha
actively growing and ac	cessible	Direct combine harvest the crop when fit.		
to the spray.		Treated straw must be chopped and	Apply in 200 - 250 l/ha water.	
		incorporated or removed, after which normal		
		cultivations may be resumed.		

	WEED CONTROL IN PEAS (PRE-	HARVEST)
Crops: Cre DC	uch/scutch grass (Elymus repens) seping bent (Agrostis stolonifera) as (combining). NOT TREAT CROPS INTENDED FOR SEED. te: This treatment is intended for weed control.	Black bent (Agrostis gigantea) Perennial broad-leaved weeds
Time	Method	Dose Rate
Spray when the natural ripening of the seed is progressing and the moisture content of the seed measures less than 30%. Target weeds must be green, actively growing and accessible to the spray.	Spray the crop and weeds overall. Minimise crop damage by use of high clearance tractors with narrow wheels and crop dividers. 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.	Low-medium couch/scutch grass infestation up to 75 shoots/m²: 3 l/ha Medium-high couch/scutch grass infestation over 75 shoots/m²: 4 l/ha Apply in 200-250 l/ha water.
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STUBBLE AND GROUND PREPARATION PRE-SOWING AND PRE-PLANTING (INCLUDING DESTRUCTION OF COVER CROPS) - ANNUAL AND PERENNIAL WEEDS, VOLUNTEERS			
Cre Anr	eping bent (Agrostis stolonifera) Perennia	nt (Agrostis gigantea) I broad-leaved weeds. r cereals and potatoes (autumn only).	
Time	Method	Dose Rate	
For PERENNIAL weed control in Autumn/winter application Spray when perennial weeds a actively growing, especially aft mid-October. Couch/scutch grass should have at least 6 ne leaves approx. 12cm long.	• Do not cultivate. • Remove straw. • Allow weeds to regrow. • Spray during mild conditions. • Allow volunteer potatoes to make ample top growth and spray well before onset of frost or natural senescence. After spraying: If before mid-November, wait at least 5 days before cultivating. If after mid-November, wait for perennial grass leaves to turn red/yellow before cultivating.	Annual weeds and grasses or couch/scutch grass infestations up to 75 shoots/m²: 3 l/ha Couch/scutch-grass infestations, over 75 shoots/m² and volunteer potatoes: 4 l/ha Apply in 150 - 250 l/ha water.	
For PERENNIAL weed control in Spring applications: Spray when weeds are actively growing as for autumn applications. Roots chopped by cultivations must show new lead growth to be killed.	Cultivate as required. Leave for regrowth to appear - allow a minimum 21 days weed growth before spraying. After spraying:		
For ANNUAL weed and cerear volunteer control in Autumn/spring/summer applications: Spray when weeds are actively growing. For optimum control: • Annual grasses should have least 10cm of green leaf. • Annual broad-leaved weeds should have at least 2 true leaves.	Allow ground to remain undisturbed for as long as practicable to allow weeds to regrow. After spraying: • Wait at least 24 hours before cultivating. • Wait at least 48 hours before drilling.	4 I/ha Apply in 80-250 I/ha water.	

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

Weeds controlled: Annual meadow grass (Poa annua)

Perennial ryegrass (Lolium perenne) Common nettle (Urtica dioca)

Italian ryegrass (Lolium multiflorum) Broadleaf dock (Rumex obtusifolius)

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.

GRASSLAND DESTRUCTION				
Weeds controlled: Crop:	Ivyleaf speedwell (Veronica hederifolia) Common field speedwell (Veronica persica) Couch grass (Agropyron repens) Pathgrass (Poi		ayweed (Matricaria inodorum), oa annua) olium multiflorum) ograss (Lolium perenne) tle (Urtica dioca)	
Time		Method		Dose Rate
Spray when grasses and actively growing at the for and growth stages: Annual grasses and ar leaved weeds: Spring, summer or aut Annual grasses have a (4") of green leaf. Annual broad-leaved weeds: Annual broad-leaved weeds: Mid to late summer. Perennial grasses hav of leaf or 5 fully expanded. Perennial broad-leave substantial leaf area of flowering.	unual broad- umn. at least 10cm veeds have at leaves. perennial e at least 12cm ded leaves. d weeds have	Lightly cut or graze and allow reweeks until the recommended greached. Spray at the dose rate recomme or grass type. Wait at least 5 days, when the leyellowed, before removing the greached greater or by grazing as recultivating or drilling. Surface mats of old grassland must broken by cultivations before reserved in greater of the following spring the mats to decompose or apply 2.5 to tonne/ac) of ground limestone to the less than seven days after treatmerotary cultivation to break the surfaincorporate the ground limestone is Seeding may be conducted as required provided that the seeds are in consoil.	rowth stages are nded for the weed aves become rowth for quired, prior to st be thoroughly eding. Either defer allow surface onnes/ha (1 ne surface mat not int followed by ince and into the soil. uired thereafter	and grasses: 3 l/ha 2-4 years old, with perennial grasses: 4 l/ha Long leys e.g. 4-7 years old with perennial broad-leaved weeds: 4 l/ha Permanent grassland with ragwor or predominantly fine-leaved grasses: 4 l/ha

ORCHARDS				
Weeds Controlled: Most annual and perennial weeds.				
Crop Time and Method Dose Rate				
Established (minimum 2 years) trees of: Apple Pear Cherry Damson Plum	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. 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.	5 I/ha Apply in 250 I/ha water.		

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

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 I/ha Apply in 80-250 I/ha water. Apply at the appropriate dose for the species to be treated as detailed below: 4 I/ha in 250 I/ha water 4 I/ha in 250 I/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



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

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 XL 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 XL 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 XL 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 XL 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 XL 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 XL.

COMPATIBILITY

DO NOT mix with any herbicide, insecticide or fungicide.

FUTURE PLANTING

Ardee XL 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.

KNAPSACI	K RATE RECKONER
METRIC MEDIUI	M VOLUME APPLICATION
Product Recommendation (Litres of product in I/ha of water)	Amount of Ardee XL per 10 litres to treat 400 m ²
3L in 250L per hectare 4L in 250L per hectare 5L in 250L per hectare	120 ml 160 ml 200 ml
LOW VOL	UME APPLICATION
Product Recommendation (Litres of product in I/ha of water)	Amount of Ardee XL per 10 litres to treat 1000 m ²
3L in 100L per hectare 4L in 100L per hectare 5L in 100L per hectare	300 ml 400 ml 500 ml

