Azural®



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 and certain other crops, for destruction of grassland, and use in stubbles and orchards, and non-crop areas. For control of emerged weeds in forestry situations.

Degraded by micro-organisms/microbes in the soil.

A soluble concentrate containing 360 g/L glyphosate, present as 441g/L (35.3% w/w) of the potassium salt of glyphosate.

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

Azural

UFI: KPF1-E0Y7-K009-RH2Q

Contains 360 g/L glyphosate, present as 441g/L (35.3% w/w) of the potassium salt of glyphosate.

WARNING

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects. Wash hands thoroughly after handling.

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

Keep only in original container.

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

If eye irritation persists: Get medical advice/attention. Dispose of contents/container to a licensed hazard-ous-waste disposal contractor or collection site except for 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.



GROUP 9 HERBICIDE

MAPP 21215

CONTENTS:

20Litres

PROTECT FROM FROST

20L, F, 067F, GB12345678a rA3



Bayer CropScience Ltd

230 Cambridge Science Park, Milton Road, Cambridge, CB4 0WB, UK.

Telephone: 01223 226500

Website: https://cropscience.bayer.co.uk/

For 24-hour emergency information contact Bayer CropScience Ltd. Tel: 0330 678 3382 (24 hr)

National Poisons Information Centre UK: 0344 892 0111 (medical professionals only)

National Poisons Information Centre Dublin: +353 1 809 2166

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

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED* IS A LEGAL REQUIREMEN
FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY HERBICIDE

Crops/situations:

Wheat, (including Durum wheat), barley, oats, combining pea, vining pea, field bean;

Oilseed rape, mustard, linseed:

Sugar beet, swede, turnip, bulb onion, leek;

All edible crops (stubble), all non-edible crops (stubble);

All edible and non-edible crops (destruction, before sowing/planting);

Grassland:

Apple, pear; plum, cherry damson;

Green cover on land not being used for crop production:

Farm non-crop areas including natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, hard surfaces; Forest nursery, forest (weed control, stump application and chemical thinning.

Maximum individual dose:	}	
Maximum number of treatments:	}	Full details are given in the Statutory Area
Latest time of application:	}	on the attached leaflet
Other specific restrictions:	}	(see Crop Specific Information - marked #

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE

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 GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate and when handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when using hand-held sprayers and hand-held rotary atomisers, WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) when using weed wiper equipment or applying cut stump treatments.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal

or higher standard of protection.

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

Environmental protection

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

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinse three times. Add washings to sprayer at time of filling and dispose of safely. Triple rinsed containers may be disposed of as non-hazardous waste.

#Crop Specific Information

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED* IS A LEGAL REQUIREMENT

CROPS/SITUATIONS	MAXIMUM INDIVIDUAL DOSE (LITRES PRODUCT/ HECTARE):	MAXIMUM TOTAL DOSE (LITRES PRODUCT/HECTARE/ ANNUM):	LATEST TIME OF APPLICATION:
Pre-harvest Winter wheat, winter barley, winter oats, spring wheat, spring barley, spring oats, durum wheat, combining pea, field bean	4.0	4.0	7 days before harvest
Post planting and pre- emergence of listed cereals, oilseed rape, combining peas, vining peas, field beans, mustard, linseed, sugar beet, swede, turnip, bulb onion and leek	1.5	1.5	Pre-emergence
Oilseed rape and linseed	4.0	4.0	14 days before harvest
Mustard	4.0	4.0	8 days before harvest.
All edible crops (stubble), all non-edible crops (stubble)	5.0 l/ha or 1.5 l/ha	5.0 l/ha/year 4.0 l/ha/year	5 days before drilling or planting of the following crop. 2 days before the drilling or planting of the following crop or 24 hours before cultivating
Grassland	6.0 l/ha	6.0 l/ha/year	5 days before harvest, grazing or drilling
Apple and pear orchards	5.0 l/ha	5.0 l/ha/year	After harvest but before green cluster stage
Cherry, plum and damson orchards	5.0 l/ha	5.0 l/ha/year	After harvest but before white bud stage
Green cover on land not being used for crop production	6.0	6.0	24 hours before cultivating
Non-crop including natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, hard surfaces	5.0	-	-

DPS/SITUATIONS	MAXIMUM INDIVIDUAL DOSE (LITRES PRODUCT/ HECTARE):	MAXIMUM TOTAL DOSE (LITRES PRODUCT/HECTARE/ ANNUM):	LATEST TIME OF APPLICATION:	
edible and non edible crops struction, before sowing/ nting	5.0	-		
est nursery, farm forest: teed control tump application	10.0 200 ml/litre of water (20% solution of product in water	-		
mical thinning (by injection)	2.0 ml per 10cm diameter (or less) of tree	-	-	

OTHER SPECIFIC RESTRICTIONS

When applying through rotary atomisers, the spray droplet spectra produced must be of a minimum Volume Median Diameter (VMD) of 200 microns. Weed wipers may be used in any recommended crop where the wiper or chemical does not touch the growing crop

For weed wiper applications, the maximum concentrations must not exceed the following:

(a) Weed wiper mini - 1:2 dilution with water (b) Other wipers 1:1 dilution with water

For stump application, the maximum concentration must not exceed 200 ml of product per litre of water (i.e. a 20%

OPS OR PLANTS. ong periods and make sure tanks are WELL Restrictions AZURAL.

DIRECTIONS FOR USE

ORTANT: This information is approved part of the Product Label. All instructions nin this section must be read carefully in er to obtain safe and successful use of this

TREME CARE SHOULD BE TAKEN AVOID SPRAY DRIFT AS THIS CAN VERELY DAMAGE NEIGHBOURING NOT MIX. STORE OR APPLY AZURAL GALVANISED OR UNLINED STEEL ITAINERS OR SPRAY TANKS. NOT leave spray mixtures in tank for Apply AZURAL herbicide once grasses and

A period of at least 6 hours and preferably 24 hours rain-free must follow application of

Do not spray onto weeds which are naturally senescent, or where growth is impaired by drought, high temperatures, a covering of dust, flooding or frost at, or immediately after application, otherwise poor control may result.

desired crops or vegetation could severely damage or destroy them. set-aside, annual grasses are best treated at

TREATED POISONOUS PLANT SPECIES MUST BE REMOVED BEFORE REGRAZING OR CONSERVING. Where Ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort.

are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any Ragwort has completely recovered or died and there is no visible sign of the dead weed. Do not include treated Ragwort in hay or silage crops.

Ragwort plants sprayed with this herbicide

AZURAL is a foliar acting herbicide which controls annual and perennial grasses and most broad-leaved weeds when used as directed. It is important that all weeds are at the correct growth stage when treated. otherwise some re-growth may occur and this will need re-treatment

proad-leaved weeds have emerged and they have ACTIVELY GROWING green leaves

Weeds controlled

emergence of healthy, green leaf. (Common Couch, for example, becomes susceptible at the onset of tillering and new rhizome growth commences which usually occurs when

PERENNIAL GRASSES must have full

plants have 4-5 leaves, each with 10-15 cm of new growth). PERENNIAL BROAD-LEAVED WEEDS are most susceptible around the flowering stage

 ANNUAL GRASSES AND BROAD-LEAVED Do not spray in windy conditions as drift onto WEEDS should have at least 5 cm of leaf, or 2 expanded true leaves, respectively. In

After application, large concentrations of full ear emergence, or before stem elongation. Application during stem extension phase of decaying foliage, stolons, roots or rhizomes should be dispersed or buried by thorough annual grasses e.g. Black-grass and Brome cultivation before crop drilling. Applications species on set-aside between the end of April of lime, fertiliser, farmvard manure and and end of May, may result in poor control and pesticides should be delayed until 5 days after require re-treatment. application of AZURAL. OTHER SPECIES – recommendations

> for specific areas of use are given in the Recommendation Tables. This product will not give an acceptable level of control of Horsetails (Equisetum arvense) repeat treatment will be necessary.

Following crops

Low volume application can be achieved by Upon soil adsorption the herbicidal properties of AZURAL are lost permitting the drilling of reducing pressure and appropriate nozzle crops 48 hours after application.

a medium spray (BCPC definition) should be Planting of trees, shrubs etc may take place used to minimise the risk of drift: 7 days after application, Grass Seed may be sown from 5 days after treatment; see e.g. Knapsack Cooper Pegler VLV 100 the 'Reccommendation Tables' for specific restrictions on direct drilled crops.

Sprayer Hygiene

of drift:

e.g. Knapsack Hypro 1.2 - 2.4

Cooper Pegler Floodjet

Hypro GuardianAIR or

standard F110-04.-05

Tee Jet 11004, 11008

green, red

or -0.6

water, add the correct amount of AZURAL It is essential to thoroughly clean-out sprayand top up with water. Mix thoroughly. tanks, pumps and pipelines and nozzle or disc • Tractor Mounted: To avoid foaming do not assemblies, with a recommended detergent use top tank agitation. Half fill the spray tank cleaner, between applying this product and with clean water, start gentle agitation, then other pesticides to avoid contamination from add the correct amount of AZURAL. Top up pesticide residues.

seriously damage or destroy crops sprayed late. Mixing and spraying

Traces of AZURAL left in the equipment may

Correctly calibrate all sprayers under field or use conditions prior to application

a) Conventional Hydraulic Sprayers

Knapsack sprayers and tractor mounted or powered sprayers may be used. These should be capable of applying accurately 80-400 L/ ha within a pressure range of 1.5-2.5 bars (20-35 psi).

Medium Volume Application (150–300 L/ha) d) Cut Stump Application Avoid high water volumes (> 300 l/ha) which

may lead to run-off from the treated vegetation,

Enso attachment to rotary saws: resulting in reduced control. Low drift nozzles This technique is specific to scrub clearance in

such as air induction and pre-orifice types producing a medium or coarse spray (BCPC AZURAL to help identify treated stumps. definition) should be used to minimise the risk

Application guide for hydraulic sprayers

EQUIPMENT	AMOUNT OF Azural	AREA TREATED	MEDIUM VOLUME AMOUNT OF WATER	LOW VOLUME Amount of Water	
Boom Sprayer	4 litres	1.0 ha	200 litres	100 litres	
Knapsack Sprayer	80 ml	200 m ²	4 litres	2 litres	

HAND-HELD EQUIPMENT: SPECIFIC GUIDANCE

e) Knapsack Sprayer Applicators

When used at a walking speed of 1 m/sec to apply a swath of 1 m width, most knapsack sprayers deliver 200 L/ha spray volume (or 10 litres per 500 m²). To apply 4.0 L/ha of AZURAL therefore, use a 2% solution (e.g. 200 ml AZURAL made up to 10 litres).

When used as above, knapsack sprayers fitted

Filling the sprayer – hand-held machines

o) Rotary Atomisers – for use in orchards with low volume nozzles typically deliver 100 L ha spray volume (or 10 litres per 1000 m²). To

When rotary atomisers are used to apply apply 4.0 L/ha AZURAL in this case, use a 4% AZURAL ensure that the droplet diameter falls within the range 200-300 microns for all uses.

the tank with water to the required level. Use

Low Volume Application (minimum 80 L/ha)

selection. Low drift nozzles which produce

Tractor Hypro LD110-025

• Knapsack: Half fill the spray tank with clean

Filling the Sprayer

c) Hand-held Wipers

of a defoamer may be necessary.

Stir the correct amount of AZURAL into the AZURAL may be applied through the weed wiper mini. Use a concentration of 1 part AZURAL to 2 parts of water and add a scarlet good mixing. dye if required. Care should be taken to avoid f) Spot Gun Applicators - for treatment of dripping onto wanted vegetation. ndividual weeds

narrow cone TG-3 or TG-5 nozzle.

forestry. A water-soluble dve may be added to

Compatibility

Do not tank mix Azural with adjuvants, pesticides or fertilisers except as advised by Baver Crop Science. For up to date information on compatible products contact Bayer Crop

> AZURAL is compatible with Mixture B (ADJ AZURAL herbicide is a foliar-acting herbicide 570). Where conventional hydraulic sprayers with broad-spectrum activity. It is taken up by are being used Mixture B may be added to the spray tank solution, at a rate of 2% of the final water volume, for all pre-plant and post-plant directed sprays only.

Do not tank-mix AZURAL when using rotary atomiser sprayers.

For hydraulic sprayers: maintain continuous agitation when using AZURAL in tank mixture

sprayer half filled with clean water. Top up with For knapsack sprayers: mix thoroughly and water, close the top and shake gently to ensure use immediately when using AZURAL in tank mixture.

This section is not part of the Product Label under the Plant Protection Products Regulations 1995 and provides additional advice on the

COMPANY ADVISORY INFORMATION

General Information AZURAL is an advanced glyphosate formulation.

To maximise the safe use of AZURAL to operator, consumer and environment, the label recommendations and the DEFRA/HSC publication 'Code of Practice for using Plant Protection Products, 2006' should be adhered

> foliage and translocated to underground roots, rhizomes and stolons, providing control of both Growers are encouraged to implement a weed annual and perennial grasses and broadleaved weeds. AZURAL is rapidly adsorbed onto particulate matter in soils and water and is quickly degraded by the micro-organisms Following label recommendations present in soil and aquatic bottom sediments. The adoption of complimentary weed control pon adsorption, the herbicidal properties of

Minimising the risk of spreading weed

assemblies, with a recommended detergent

to maintain effective weed control

Weed resistance strategy

There are no known cases of weed resistance

available from the HGCA, CPA, your distributor,

crop adviser or product manufacturer (Bayer

to alvohosate in UK. Strains of some annual

There is low risk for the development of weed resistance to AZURAL.

weeds (e.g. Black-grass, Wild oats and Italian Ryegrass) have developed resistance to certain herbicides which may lead to poor control using those products. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are

resistant strategy based on (a) good agricultural practices and (b) good plant protection

 The implementation of good spraying practice pesticides to avoid contamination from pesticide uses. residues.

Using the correct nozzles to maximise

in soils and is, therefore, unlikely to contaminate

• Application only under appropriate weather

 Monitoring performance and reporting any unexpected results to Bayer CropScience Ltd.

General Cautions

Take extreme care to avoid drift, particularly when valve unit fitted to the top of the IBC. Attach the using near or alongside hedgerows. The use of coupler of the transfer system as instructed in the low drift nozzles such as 'air induction' and 'prethe equipment manufacturer's instructions to orifice' nozzles are recommended.

New generation weed wipers

All sprayers should always be calibrated before line with the instructions ensuring that the transfer use. This is essential when nozzles are changed system is clean and empty before placing in the or if a different dose of product is to be applied. storage position.

Unused Spray Mixture

Spraver Hygiene

Once AZURAL has been diluted in the spray tank, in a clean condition for collection. Do not attempt it should be used as soon as possible. However, if to rinse the inside – external clean only. unexpected delays occur the diluted spray can be Trade Mark References safely stored. Agitate well before use. Storage for AZURAL is a registered trademarks of the Baver longer than 3 days may result in reduced efficacy.

Spraver Maintenance

the instructions of the sprayer manufacturer.

tanks, pumps and pipelines and nozzle or disc

Follow the guidance on the disposal of surplus

spray solution, tank washings, concentrate and

containers as given in Section 5 of DEFRA/HSC/

NAW publication "Code of Practice for using

Plant Protection Products of January 2006

All other brand names referred to are trademarks Ensure the sprayer is in good working order and of other manufacturers in which proprietary rights replace damaged, worn or malfunctioning parts before use. Carry out maintenance according to

Remove the tamper evident plastic cap from

transfer the required amount of product. Remove

the coupling after use and rinse the equipment in

The container must be empty of product and left

SAFETY DATA SHEET It is essential to thoroughly clean-out spray

Following the instructions on this Product Label for the specified uses should ensure that the cleaner, between applying this product and other product is used safely and efficaciously for those

> A full Material Safety Data Sheet is available on request. Visit https://cropscience.baver.co.uk/ or Telephone: 01223 226500

This product is a soluble concentrate 230 Cambridge Science Park, Milton Road, Cambridge, CB4 0WB, UK

For 24-hour emergency information contact Bayer CropScience Ltd. the potassium salt of glyphosate Tel: 0330 678 3382 (24 hr)

National Poisons Information Centre UK: 0344 892 0111 (medical professionals only)

National Poisons Information Centre Dublin: +353 1 809 2166

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED* IS A LEGAL REQUIREMENT FOR PROFESSIONAL LISE ONLY AS AN AGRICULTURAL /HORTICULTURAL /FORESTRY HERBICIDE

Wheat, (including Durum wheat), barley, oats, combining pea, vining pea, field bean;

Oilseed rape, mustard, linseed: Sugar beet, swede, turnip, bulb onion, leek:

All edible crops (stubble), all non-edible crops (stubble); All edible and non-edible crops (destruction, before sowing/planting):

Apple, pear: plum, cherry damson:

Green cover on land not being used for crop production:

Farm non-crop areas including natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, hard surfaces: Forest nursery, forest (weed control, stump application and chemical thinning.

> Maximum individual dose: Maximum number of treatments: } Full details are given in the Statutory Area

Latest time of application:

on the attached leaflet Other specific restrictions: } (see Crop Specific Information – marked #)

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE

SAFETY PRECAUTIONS

Operator protection

Bayer CropScience Ltd

Telephone: 01223 226500

Website: https://cropscience.baver.co.uk/

reasonably practicable in addition to the following personal protective equipment:

contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS). SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when using hand-held sprayers and hand-held rotary atomisers. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) when using weed wiper equipment or applying cut stump treatments.

Do not contaminate water with the product or its container except

or higher standard of protection.

when used as directed. Do not clean application equipment near surface water. Avoid contamination via drains from farmvards

at time of filling and dispose of safely. Triple rinsed containers may be

meets or exceeds British Standard BS 6356

Sprayer Hygiene The product must only be transferred and

Disposal

measured using a closed transfer system that Part 9. If any doubt exists regarding equipment suitability contact the equipment manufacturer or

smoking and after work. Engineering control of operator exposure must be used where

Environmental protection

WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate and when handling

However, engineering controls may replace personal protective

DIAMETER

AZURAL are lost, permitting drilling of crops

within 48 hours of application. When used as

drift may be used immediately for irrigation

directed, any water subjected to AZURAL spray

purposes. Until degraded, the active ingredient

in AZURAL, glyphosate, is practically immobile

Symptoms of treatment are generally first seen

7-10 days, or longer (if growth is slow), after

spraying. These take the form of leaf reddening

your agronomist for further advice.

disposed of as non-hazardous waste.

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

WASH HANDS AND EXPOSED SKIN before eating and drinking or

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS KEEP OUT OF REACH OF CHILDREN

RINSE CONTAINER THOROUGHLY by using an integrated pressur rinsing device or manually rinse three times. Add washings to spraye

Apply 5 ml of spray to target weed, using a

(ML) PER 5 LITRES OF SPRAY SOLUTION FOR TARGETED DOSAGES 3.0 L/ha | 4.0 L/ha | 5.0 L/ha

0.3 20 28 35 0.6 85 110 140

AMOUNT OF AZURAL

Reaction of nettles is slow.

groundwater.

Symptoms on the weed:

followed by vellowing and are usually guicker to appear on grasses than on broad-leaved weeds.

equipment if a COSHH assessment shows they provide an equal

containing 360 g/L glyphosate.

present as 441 g/L (35.3% w.w.) of

RECOMMENDATION TABLES

AREA OF USE	TARGET WEEDS/ USAGE	CROP/SITUATION	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE	AREA
PRE-HARVEST Common Couch ARABLE CROPS		WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	1 to 25 shoots/m² Up to 75 shoots/m² Over 75 shoots/m²	2.0 3.0 4.0	80-250 L/ha*	Grain/seed moisture must not exceed 30% at spraying. Harvest intervals: CEREALS, PEAS, BEANS 7+ days OILSEED RAPE 14-21 days	STUB PRE-S PRE-F
		OILSEED RAPE AND MUSTARDS	Up to 75 shoots/m² Over 75 shoots/m²	3.0 4.0	100-250 L/ha#	LINSEED 14-28 days MUSTARDS 8-10 days	
		COMBINING PEAS FIELD BEANS	Up to 75 shoots/m² Over 75 shoots/m²	3.0 4.0	80-250 L/ha*	Use high clearance, narrow wheeled tractors, wide booms and crop dividers. Where desiccating crops, check susceptibility of any weeds present. Do not attempt to desiccate OILSEED RAPE or MUSTARD crops with significant	
		LINSEED	Up to 75 shoots/m² Over 75 shoots/m²	3.0 4.0	80-250 L/ha*	secondary growth, uneven maturity, disease or stress. Desiccate LINSEED when seeds are light brown and capsules brown; stems/leaves may be yellow/green.	
	Perennial broad-leaved weeds and other perennial grasses	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	All levels of all species	4.0	80-250 L/ha*	Effects on brewing and baking have not been tested. Consult grain merchant or processor before use. At harvest management rates, ANNUAL NETTLE, VOL. POTATO, ROSEBAY WILLOW	GREE ON LA BEING
OILSEED RAPE AN	OILSEED RAPE AND MUSTARDS	All levels of all species	4.0	100-250 L/ha#	HERB and POLYGONUM WEEDS will not be susceptible. WHEAT crops, WHEAT VOLUNTEERS and BROAD-LEAVED WEEDS may require up to 14 days before	FOR C	
	СОМ	COMBINING PEAS AND FIELD BEANS	All levels of all species	4.0	80-250 L/ha* harvest. Treated straw must not be used as a horticultural mulch.		E.G. "
		LINSEED	All levels of all species	4.0	80-250 L/ha	DO NOT TREAT CROPS GROWN FOR SEED.	
	Harvest management	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	Annual grasses, crop stems and leaves Annual broad-leaved weeds	1.0 (+) 1.5 (+)	80-250 L/ha*	* Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns. # Use higher volumes for dense canopies.	
	Crop desiccation and annual weeds, prior to	OILSEED RAPE MUSTARDS	All levels/species	3.0	100-250 L/ha#	(+) For optimum results use an approved adjuvant at 0.5% spray solution as described in 'Compatability' section.	
	direct combining	LINSEED	All levels/species	3.0	80-250 L/ha		
ALL EDIBLE AND NON- EDIBLE CROPS (DESTRUCTION, BEFORE SOWING/ PLANTING)		Vegetation management	Annual weeds Perennial grasses Perennial broad-leaved weeds	1.5 4.0 5.0	80-250 L/ha* or hand-held equipment (p. 14)	Do not use in or alongside hedgerows Do not use under polythene or glass. Apply the annual weed dose at least 2 days before sowing/planting. Apply at perennial weed doses at least 5 days before sowing/planting. *Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns	PERM GRAS (DEST ROTA' GRAS
POST SOWING/ PLANTING, PRE- EMERGENCE OF THE CROP	Volunteer cereals and annual weeds	LISTED CEREALS OILSEED RAPE, MUSTARD, LINSEED, PEAS, FIELD BEANS, SUGAR BEET, SWEDE, TURNIP, ONION and LEEK	All levels/species	1.5	80-250 L/ha*	CAUTION – Ensure that spraying precedes ANY crop emergence. * Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns.	(DEST

AREA OF USE	TARGET WEEDS/USAGE	CROP/SITUATION	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
STUBBLES, PRE-SOWING and PRE-PLANTING	Common Couch	BEFORE ALL CROPS EXCEPT ORCHARDS	Up to 75 shoots/m² Over 75 shoots/m²	3.0 4.0	80-250 L/ha*	Do not cultivate immediately before spraying. For PERENNIAL weed control, allow: - 21+ days growth before spraying in spring
THE-TEANTING	Other perennial grasses; volunteer potatoes (autumn only)	Ununanus	All levels of all species	4.0		VOLUNTEER POTATOES to make ample top growth 5 days before cultivating or drilling
	Volunteer cereals and annual weeds]	All levels of all species	1.5 (+)		For ANNUAL weed control, allow: - 24 hours before cultivating
	Perennial broad-leaved weeds]	All levels of all species	5.0		- 48 hours before drilling Allow 7 days before planting trees
	Perennial grasses and broad-leaved weeds	BEFORE ORCHARD PLANTING	Arable weeds Pasture weeds	4.0 5.0		*Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns. (+) For optimum results use an approved adjuvant at 0.5% spray solution as described in 'Compatibility' section.
GREEN COVER ON LAND NOT BEING USED	Common Couch	BEFORE or DURING REMOVAL FROM	Up to 75 shoots/m² Over 75 shoots/m²	3.0 4.0	80-250 L/ha* or	Before using on land taken out of production as part of a grant aided scheme, ensure compliance with the management rules of that scheme.
FOR CROP PRODUCTION E.G. "SET ASIDE"	Perennial broad-leaved weeds and other perennial grasses	PRODUCTION e.g. prior to	All levels/species	4.0	hand-held equipment (p. 14)	Do not 'top' or cultivate immediately before application. For PERENNIAL weed control, allow: 21+ days growth before spraying in spring
E.G. SET ASIDE	Annual weeds: • Early autumn/spring • Late spring/summer	growing a set aside mixture	All levels/species All levels/species	1.5 3.0	or tractor mounted weed wiper (p. 13)	5 days before cultivating or drilling. For ANNUAL weed control, allow: 24 hours before cultivating.
	Natural regeneration and cover crop destruction	AFTER SHORT ROTATION OF LONG TERM REMOVAL FROM PRODUCTION	Annual weeds only Perennial grasses Perennial broad- leaved weeds Perennial broad-leaved weeds as listed below.	3.0 4.0 5.0 6.0+	150-250 L/ha*	Do not direct drill after set aside. Avoid applications during stem elongation as reduced control and re-spray is likely * Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns. Best control of annual grasses is achieved between full ear emergence and senescence. +Only for weeds listed as per grassland destruction application rate table.
PERMANENT GRASSLAND (DESTRUCTION)	Short rotation Ryegrass, longer leys and permanent pasture	GRASS	Short rotation Ryegrass with annual weeds Leys 2-4 years old with perennial grass weeds	3.0 4.0	150-250 L/ha	Treat EITHER before grazing/mowing in June-Oct, when growth is 30-60 cm, not dense and lacking mature seeds, OR re-growth after grazing/mowing. Select the application rate which controls/destroys the least susceptible weed and grass species present in the sward.
ROTATIONAL GRASS (DESTRUCTION)			Long leys 4-7 years old with perennial broad- leaved weeds	5.0		Grass may be conserved or grazed by cattle, dairy cows or sheep 5+ days after spraying. REMOVE POISONOUS PLANTS BEFORE GRAZING/MOWING. If Ragwort is present, the guidance in the 'DIRECTIONS FOR USE must be followed. ONLY direct drill grass and clover EITHER into 1-2 year leys without mat, 5+ days after spraying.
			Permanent pasture See Weed Table on p. 9-10	6.0		OR long leys with some mat, in the spring following autumn application.

	3.0 L/HA		4.0 L/HA		5.0 L/HA		6.0 L/HA	
Annual Meadow-grass	Common Chickweed	Black-bent	Broad-leaved Dock	Bracken**	Common Nettle	Common Ragwort	Hard Rush	
Common Mouse-ear	Dock Seedlings	Cock's-foot	Common Bent	Common Sorrel	Creeping Buttercup	Heath Rush	Jointed Rush	
Italian Rye-grass	Mayweed species	Common Couch	Creeping Bent	Creeping Thistle	Daisy	Molinia (Purple Moor-grass)	Nardus (Mat grass)	
Meadow Fescue	Meadow Foxtail	Creeping Soft-grass	Curled Dock	Dwarf Thistle	Perennial Sow-thistle	Red Fescue	Sheep's Fescue	
Rough Meadow-grass	Speedwell species	Perennial Rye-grass	Plantains	Red Clover	Sedges	White Clover*	Yellow Rattle	
Timothy		Soft Brome	Yorkshire Fog	Sheep's Sorrel	Soft Rush			
			Ü	Spear Thistle	Tufted Hairgrass			
				Yarrow				

* White Clover is best cut in June and sprayed one month later. ** At full frond expansion

AREA OF USE	TARGET WEEDS/USAGE	CROP/SITUATION	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
ORCHARDS	Perennial grasses and broad-leaved weeds Root suckers	WITHIN ORCHARDS OF APPLE, PEAR, PLUM, CHERRY, DAMSON	All levels of most species All species	5.0 5.0		Trees must have been established for 2 years before spraying. Spray AFTER autumn leaf-fall and BEFORE: Apples, pears – green cluster stage Stone fruit – white bud stage Avoid contact with tree branches and trunks above 30 cm from the ground. Treat suckers in late spring only.
IN-CROP (TRACTOR-MOUNTED WEED WIPER) APPLICATION)	Bolters, weed beet, other weeds	ARABLE CROPS AND GRASSLAND SET ASIDE	All levels		1:1 dilution with water OR 1:2 dilution with water in hot, dry conditions. For 'new generation' wipers consult the manufacturer for guidance.	Weeds must be 10+ cm taller, and wiper 5+ cm higher, than desired vegetation. Wipe dense populations twice, in opposite directions. BOLTING BEET requires three applications, 2 weeks apart, from early July to early August. Contact Bayer or your distributor for specific recommended weed wiper applicators. POISONOUS WEEDS and grazing/mowing interval – See GRASSLAND section.
NATURAL SURFACES NOT INTENDED TO BEAR VEGETATION, PERMEABLE SURFACES OVERLYING SOIL. ALL SITUATIONS (DESTRUCTION, BEFORE PLANTING).	Vegetation management	Including farmyards roadsides, paths, and along fences and walls	Annual weeds Perennial grasses and broad-leaved weeds	1.5 4.0–5.0	Hydraulic sprayers (boom and knapsack) at water volumes 80-400 L/ha or rotary atomisers* at water volumes 40 L/ha or hand-held equipment. See Mixing & Spraying section.	Do not use under polythene or glass. * Where rotary atomisers are used their droplet diameter must fall within the range 200-300 µm.
HARD SURFACES	Vegetation management	Including farmyards roadsides, paths, hard surfaces and along fences and walls	Annual weeds Perennial grasses and broad-leaved weeds	1.5 4.0–5.0	Hydraulic sprayers (boom and knapsack) at water volumes 80-400 L/ha or rotary atomisers* at water volumes 40 L/ha or hand-held equipment. See Mixing & Spraying section.	Apply this product carefully. Ensure spraying takes place only when weeds are actively growing (normally March to October) and is confined to only visible weeds including those in the 30 cm swath covering the kerb edge and road gulley – do not overspray drains.

FORESTRY/FARM FORESTRY WEED CONTROL

Azural can be used for site preparation and for weed control in planted out trees

AREA OF USE	TARGET WEEDS/ USAGE	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
FORESTRY: - PRE-PLANTING	Arable land, planting, replanting, & grassland areas	Arable weeds Grassland weeds	4.0 5.0	Hydraulic sprayers: 80-250 L/ha or rotary atomisers: 40 L/ha*	All tree species may be planted 7 days or more after treatment. *Where rotary atomisers are used their droplet diameter must fall within the range 200-300µm.
FORESTRY: - POST-PLANTING (DIRECTED) IN CONIFERS & BROAD-LEAVED TREES	Clean-up around trees with knapsack applicators	Annual/perennial grasses and broad- leaved weeds Woody weeds: Bracken/Beech Brush/Brambles Sycamore/Oak/Hazel/Willow/ Ash (excluding Rhododendron) Heather (peat soils) Heather (mineral soils) Rhododendron	4.0 3.0 4.0 6.0 10.0	Hand held equipment. Knapsack: Apply as a 2% concentration or Weed wiper mini: apply as a concentration of 1 part AZURAL to 2 parts water (see Mixing & Spraying section)	It is ESSENTIAL to use a TREE GUARD for all applications made in the growing seas Treat bracken after frond tips are unfurled but before senescence. Treat heather late August to end September. All other woody weeds are treated June to August, before leaf senescence but after new growth of crop has hardened. Application using a weed wiper is not suitable. (*) For improved control of Rhododendron apply 8.0 L/ha AZURAL, adding Mixture E (ADJ 0570) at 2% of spray volume.
FORESTRY: - POST-PLANTING (OVERALL DORMANT SEASON IN CERTAIN CONIFERS – CONIFER RELEASE)	Grass weeds: - Lowland areas - Upland areas Bracken Beech & Birch Brambles	Black Bent, Cock's-foot, Common Couch, Creeping Soft-grass, False Oat-grass, Fescues, Meadow-grasses, other Bent species, Purple Moor-grass, Sweet Vernal-grass, Tufted Hair-grass, Wavy Hair-grass, Wood Small-reed (Bush grass) All levels of all species All levels of all species	2.0 2.0 2.0 3.0	Hydraulic sprayers: 200-250 L/ha or hand-held equipment – see 'Mixing and Spraying' section	DO NOT OVERALL SPRAY trees being grown for ORNAMENTAL PURPOSES, includir CHRISTMAS TREES. Species safe to spray when fully dormant and leader growth hardened: Corsican, Lodgepole and Scots Pine, Norway Spruce, Sitka Spruce, Laws Cypress, Western Red Cedar. Douglas Fir and Noble Fir – safe to spray when fully dormant and leader growth has hardened but NOT in spring. If overall application ta place after the optimum timing weed control may be reduced. It is advisable to spra a limited area of forest to test crop safety under local conditions before widespread overall application in subsequent years. These recommended application rates referencestry usage only. Inadequate control may result if used in other areas. Caution: The timing of hardenir of leader growth varies considerably between locations and between seasons. It may occur as early as the end of July or be delayed to October or later. To avoid damage Lammas growth, sprays should be directed away from leaders.
FORESTRY: - STUMP APPLICATION FOR CHEMICAL THINNING	Deciduous trees Coniferous trees	All species All species	10% solution of AZURAL in water 20% solution of AZURAL in water		Apply the solution to saturate the rim of the newly cut surface, with a suitably adapt clearing saw, spot gun or paintbrush. Treat as soon as possible after felling, in the period November to March/April. Do not apply in the period of active sap flow in the spring/early summer. Do not cut trenches or drill holes and fill with the solution or us undiluted product. Note: for ease of identification of treated areas a suitable, commercially available, water-soluble dye may be added to the prepared spray solution
FORESTRY: - CHEMICAL THINNING BY INJECTION OF TREE STEMS	Coniferous and deciduous species	-	2 ml neat AZURAL per cut per 10 cm diameter (or less) of tree		Use a hatchet to cut one notch in trees up to 10 cm diameter and apply 2 ml of the solution to each cut. Use two or three notches in trees over 10 cm diameter. Do not treat in the period of active sap flow in the spring/early summer.