10Kg Bag Label



ROUNDUP POWERMAX

- High load 720 g/Kg
- High level of efficacy
- Minimum waste
- Superior performance in challenging conditions

A foliar applied herbicide for the control of annual and perennial grass and broad-leaved weeds, before sowing or planting all crops, pre-emergence and pre-harvest in cereals and certain other crops, and set-aside and for use in stubbles, orchards, vineyards, aquatic and non-crop areas.

GROUP 9 HERBICIDES

UFI: JAW1-W0QC-800Y-WSQY

This product is a water soluble granule containing 72% w/w glyphosate present as 79.2% w/w as the ammonium salt

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

Contents e10kg

MONSANTO UK LIMITED,

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: 00800 1020 3333

ROUNDUP POWER MAX

Contains 72% w/w glyphosate present as 79.2% w/w as glyphosate ammonium salt.



Toxic to aquatic life with long lasting effects.

Keep only in original container.

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

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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

MAPP Number 16373 Batch/lot number: Store in cool, dry place. PROTECT FROM FROST

IMPORTANT INFORMATION AREA

FOR PROFESSIONAL USE ONLY, AS AN OUTDOOR AGRICULTURAL/HORTICULTURAL/AQUATIC HERBICIDE

Crops/situations:

Wheat (winter), barley (winter), oats (winter), wheat (spring), barley (spring), oats (spring), durum wheat, oilseed rape, combining

and vining peas, field beans, mustard, linseed, sugar beet, potatoes, swedes, turnip, bulb and salad onions, leeks.

Asparagus.

Grassland.

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

Green cover on land not being used for crop production.

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

Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, Hard surfaces.

Apple, pear, plum, cherry, damson orchards.

Vineyards (Table and wine grapes)

Aquatic (enclosed waters, land immediately adjacent to aquatic areas)

Maximum individual dose:

Maximum number of treatments:

} Full details are given in Crop Specific Information on the attached leaflet

Latest time of application: }
Other specific restrictions: }

Users must consult the appropriate water regulatory body (Environment Agency/Scottish Environmental Protection Agency) before using the product near water and must obtain their agreement before using this product to control aquatic weeds. Users must apply to the appropriate water regulatory body to determine the maximum allowable 'concentration in based on local conditions before using 'ROUNDUP POWERMAX'

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: 1kg: 5.5 litres dilution with water

b) Other wipers: 1kg: 3.8 litres dilution with water

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS

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 when handling the concentrate and contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when using hand-held equipment

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

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of aloves.

WHEN USING DO NOT EAT OR DRINK OR SMOKE.

WASH DUST/GRANULES FROM skin or eyes immediately.

DO NOT BREATHE SPRAY.

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

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). It is essential that when this product is used to control weeds on hard surfaces, that the directions for use are strictly adhered to.

Recommendations apply to the use of this herbicide for the control of weeds growing in or by water and must be read in conjunction with the Official Code of Practice entitled "Guidelines for the Use of Herbicides on Weeds in or near Watercourses and Lakes" obtainable from Department of Environment and Rural Affairs (DEFRA publications tel: 08459 556000), Scottish Executive, Environment and Rural Affairs Department, Department of Agriculture and Rural Development

for Northern Ireland and the National Assembly for Wales Agriculture Department.

The Water Act, 1989, The Water Resources Act 1991, the Control of Pollution Act 1974, The Northern Ireland Water Resources Act 1992 and the Control of Pollution and Local Government (Northern Ireland) Order 1978, may apply to the act of applying ROUNDUP POWERMAX for the control of weeds growing in or by reservoirs and water courses, eg rivers, streams, ditches, drains and ponds/lakes discharging into such water courses.

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.

EMPTY CONTAINER COMPLETELY and dispose of safely.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site, except for empty clean containers which can be disposed of as non-hazardous waste.

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.

Warnings

EXTREME CARE SHOULD BE TAKEN TO AVOID SPRAY DRIFT AS THIS CAN SEVERELY DAMAGE NEIGHBOURING CROPS OR PLANTS.

DO NOT MIX, STORE OR APPLY ROUNDUP POWERMAX IN GALVANISED OR UNLINED STEEL CONTAINERS OR SPRAY TANKS.

DO NOT leave spray mixtures in tank for long periods and make sure tanks are WELL VENTED.

Restrictions

Rain within 6 hours may reduce efficacy.

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. Ragwort plants sprayed with this herbicide 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.

Applications of lime, fertiliser, farmyard manure and pesticides should be delayed until 5 days after application of ROUNDUP POWERMAX.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area, particularly when using near or alongside hedgerows.

Do not spray on to weeds suffering from drought, water-logging, a covering of dust, heat or frost, otherwise poor control may result.

Do not tank mix ROUNDUP POWERMAX with adjuvants, pesticides or fertilisers except as specified under Directions for Use – Compatibility.

Weeds controlled

All target weeds must be actively growing at spraying. It is important that all weeds are at the correct growth stage when treated, otherwise some regrowth may occur and this will need re-treatment.

PERENNIAL GRASSES must have full emergence of healthy, green leaf. (Common Couch, for example, becomes susceptible at the onset of tillering and new rhizome growth, which usually occurs when plants have 4-5 leaves, each with 10-15 cm of new growth).

PERENNIAL BROAD-LEAVED WEEDS are most susceptible around the flowering stage.

Where long-term PERENNIAL WEED control is sought it is important that perennial weeds are not disturbed prior to treatment so cultivation should not be carried out before spraying.

ANNUAL GRASSES AND BROAD-LEAVED WEEDS should have at least 5 cm of leaf, or 2 expanded true leaves, respectively. In set-aside, annual grasses are best treated at full ear emergence, or before stem elongation. Application during stem extension phase of annual grasses e.g. Black-grass and Brome species on set-aside between the end of April and end of May, may result in poor control and require re-treatment.

BRACKEN should be treated after frond tips are unfurled, but pre-senescence. OTHER SPECIES - recommendations for specific areas of use are given in the Recommendation Tables. See booklet attached.

This product will not give an acceptable level of control of Horsetails (Equisetum arvense) – repeat treatment will be necessary.

Weed resistance strategy

There is a low risk for the development of weed resistance to ROUNDUP POWERMAX. Strains of some annual 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 available from the HGCA, CPA, your distributor, crop adviser or product manufacturer (Monsanto).

Growers are encouraged to implement a weed resistance strategy based on (a) good agricultural practices and (b) good plant protection practices by:

- Following label recommendations
- The adoption of complimentary weed control practices
- Minimising the risk of spreading weed infestations
- The implementation of good spraying practice to maintain
- effective weed control
- Using the correct nozzles to maximise coverage
- Application only under appropriate weather conditions
- Monitoring performance and reporting any unexpected results

to Monsanto UK Ltd (https://cropscience.bayer.co.uk/ or call Telephone: 01223 226500)

Crop specific information

			1 1 1 1 1 1
Crops/situations	Maximum individual dose (kg product/hectare):	Maximum total dose (kg product/ hectare/crop):	Latest time of application:
Winter wheat, winter barley, winter oats, spring wheat, spring barley, spring oats, durum wheat, combining peas, field beans Pre-harvest	2.0	2.0	7 days before harvest
Oilseed rape and linseed Pre-harvest	2.0	2.0	14 days before harvest
Mustard Pre-harvest	2.0	2.0	8 days before harvest
Winter wheat, winter barley, winter oats, spring wheat, spring barley, spring oats, durum wheat, oilseed rape, potatoes, vining and combining peas, field beans, mustard, linseed, sugar beet, swedes, turnips, bulb and salad onions, leeks. Post plant pre-emergence	0.75	0.75	Pre-emergence
Asparagus Post plant pre-emergence	2.5	2.5	Pre-emergence
All edible crops (stubble) All non-edible crops (stubble)	2.5	2.5	For perennials: 5 days before
Stubbles and pre-plant	or	or	drilling or planting of the following crop.
	0.75	0.75	For annuals: 2 days before drilling or planting or 6 hours before cultivating
	2.5	-	-

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All edible and non-edible crops Destruction, before sowing/planting			
Green cover on land not being used for crop production.	3.0	3.0	24 hours before cultivating.
Grassland	3.0	3.0	5 days before harvest drilling or grazing
Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil.	2.5	2.5	-
Hard surfaces	2.5	2.5	-
Apple and pear orchards	2.5	2.5	After harvest (post leaf fall) but before green cluster stage
Cherry, plum and damson orchards	2.5	2.5	After harvest (post leaf fall) but before white bud stage.
Vineyards (table and wine grapes)	2.5	2.5	28 days before harvest
Aquatic (Enclosed waters and land immediately adjacent to aquatic areas)	3.0	3.0	

Following Crops

Upon adsorption, the herbicidal properties of ROUNDUP POWERMAX are lost, permitting drilling of crops within 48 hours of application.

Mixing and spraying

ROUNDUP POWERMAX is a water-soluble granular formulation.

The free-flowing, dust-free granules dissolve rapidly and completely in water and can be applied in spray volumes ranging from 80-400 I/ha using tractormounted and knapsack sprayers.

Specialised spraying equipment such as weed wiper applicators may be used where indicated.

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

Spray Quality

A MEDIUM or COARSE quality spray (BCPC definition) should be applied for optimum results and to reduce the risk of drift.

Conventional hydraulic sprayers with a pressure range 1.5-2.5 bar is suitable.

Filling the Sprayer

Half fill the spray tank with water and, on tractor-mounted sprayers, start agitation. Add the appropriate quantity of ROUNDUP POWERMAX. Top up the tank to the level required.

When using a chemical induction bowl or hopper, half fill the bowl with water and add ROUNDUP POWERMAX until within 2 cm (1 inch) of the surface of the water. With the rinsing system on, open the valve to empty the bowl into the main tank. Repeat until the required amount of ROUNDUP POWERMAX has been introduced.

<u>Knapsack Sprayer Applicators</u> – use in non-crop areas, aquatic situations and orchards.

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 2.0 kg/ha of ROUNDUP POWERMAX, therefore, use 20g product for each 2 litres of spray liquid required.

Application guide for hydraulic sprayers

Application got	ac for fry arabic	<u> 3010 y 013</u>		
EQUIPMENT	AMOUNT OF	AREA	MEDIUM	LOW VOLUME
	ROUNDUP	TREATED	VOLUME	Amount of
	POWERMAX		Amount of	Water
			Water	
Boom Sprayer	2.5Kg	1.0 ha	200 litres	100 litres
Knapsack	12.5g	50m² per litre	1 litre	0.5 litres
Sprayer				

^{*} Knapsack sprayer calibrated to deliver 200 litres/ha (medium volume) or 100 litres/ha (low volume).

When used as above, knapsack sprayers fitted with low volume nozzles typically deliver 100 I/ha spray volume (or 10 litres per 1000 m²). To apply 2.0 kg/ha ROUNDUP POWERMAX in this case, use 40g product for each 2 litres of spray liquid required.

<u>Hand-held Weed Wiper Applicator (e.g. Weed Wiper Mini)</u> – use in non-crop, and orchards.

Apply a solution of 180g ROUNDUP POWERMAX per 1 litre of water adding a water-based dye if required. Care should be taken to avoid dripping onto wanted vegetation.

A suitable dye may be obtained from Certis, telephone (01980) 676500.

<u>Spot Gun Applicators -</u> treatment of individual weeds in orchards and non-crop situations. Apply 5 ml of spray to target weed, using a narrow cone TG-3 or TG-5 nozzle.

Spot diameter (metres)		Amount of ROUNDUP POWERMAX (g) per 5 litres spray solution							
(menes)	1.5 kg/ha	1.5 kg/ha 2.0 kg/ha 2.5 kg/ha 8.6 kg/ha							
0.3	12	12 16 19 37							
0.6	43	62	74	149					

Boat mounted sprayers

For use in aquatic situations. Prepare sprayer as for knapsack sprayers. Calibrate and spray at the lowest speed possible. Always apply against the direction of any current.

Compatibility

Do not tank mix ROUNDUP POWERMAX with adjuvants, pesticides or fertilisers except as advised by Monsanto. For up to date information on compatible products contact Monsanto UK Limited (https://cropscience.bayer.co.uk/ or call Telephone: 01223 226500).

For hydraulic sprayers: maintain continuous agitation when using ROUNDUP POWERMAX in tank mixture.

For knapsack sprayers: mix thoroughly and use immediately when using ROUNDUP POWERMAX in tank mixture.

COMPANY ADVISORY INFORMATION

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

General Information

ROUNDUP POWERMAX is a foliar-acting herbicide with broad-spectrum activity. It is translocated from treated green growth to underground roots, rhizomes and stolons, providing control of both annual and perennial weeds. ROUNDUP POWERMAX is rapidly adsorbed onto particulate matter in soils

and water and is quickly degraded by the micro-organisms present in soil and aquatic bottom sediments. When used as directed any water subjected to ROUNDUP POWERMAX spray drift may be used immediately for irrigation purposes. Until degraded, the active ingredient in ROUNDUP POWERMAX, glyphosate, is practically immobile in soils and is, therefore, unlikely to contaminate groundwater. All edible and non-edible crops may be sown or planted at specified intervals following the use of this product.

Extensions of Authorisation

These extensions of the authorised use provide for the use of 'Roundup Powermax' in respect of crops and situations other than those included on the product label (above). Neither the efficacy nor the phytotoxicity of the product for which these Extensions of authorisation have been granted have been assessed and, as such, the user bears the risk in respect of failures concerning its efficacy and phytotoxicity.

Roundup PowerMax has the following Extensions of Authorisation for minor use.

Users must have a copy which can be downloaded from www.secure.pesticides.gov.uk/offlabellist before use.

Pre harvest: Buckwheat, Canary Seed, Millet, Sorghum (20141313), Hemp and Quinoa (20141321) grown for bird seed; Lupins, (20141321) and Rye, (20141307); Outdoor Rhubarb, (20141320).

Inter-row: Bilberry, Blueberry, Blackcurrant, Cranberry,

Gooseberry Redcurrant, and Whitecurrant, (20141316); Chestnut, Hazlenut, Kentish Cob, Walnut, (20141317); Outdoor crops of Beetroot, Carrot, Garlic, Horseradish, Leek, Onion, Parsley root, Parsnip, Salad Onion, Salsify, Shallot, Swede, Turnip, (20141305)

Non food crops: Miscanthus, Game cover, Hemp, Woad, non-fruiting hops, soft fruit and top fruit, (20141320)

Agronomic advice

Applied pre-harvest of specified crops, ROUNDUP POWERMAX provides, in addition to weed control, a diverse range of harvest management benefits accruing from the removal of green material from the crop.

After application, large concentrations of decaying foliage, stolons, roots or rhizomes should be dispersed or buried by thorough cultivation before crop drilling. Direct drilling into such a mat of decaying material may occasionally cause a slight check to crop growth.

To maximise the safety of ROUNDUP POWERMAX to operator, consumer and environment, the label recommendations and the DEFRA/HSE/NAW

publication "Code of practice for using plant protection products" of January 2006 should be adhered to.

Effects of weather

See Directions for Use (Restrictions).

ROUNDUP POWERMAX will remain efficacious at low but not freezing temperatures however, the onset of symptoms will be delayed.

A covering of dew may reduce efficacy where run off occurs.

Symptoms of weeds

Symptoms of treatment are generally seen first 7-10 days, or longer (if growth is slow), after spraying. These take the form of leaf reddening followed by yellowing and are usually quicker to appear on grasses than on broad-leaved weeds. Reaction to nettles is slow.

Sprayer Hygiene

It is essential to thoroughly clean out the entire sprayer system, using a recommended cleaner, between applying ROUNDUP POWERMAX and other pesticides.

Disposal

Follow the guidance on the disposal of surplus spray solution, tank washings, concentrate and containers as given in Section 5 of the DEFRA/HSE/NAW publication "Code of practice for using plant protection products" of January 2006.

USAGE INSTRUCTIONS

Standard sprayer:

- 1. Fill the spray tank with 2/3 of the required quantity of water.
- 2. Switch on the agitation and re-circulation.
- 3. Add the granules "progressively" and when completed add the remaining water. Continue agitation for a minimum of 5 minutes.

(Alternatively, a re-circulation washed sieve on top of the tank may be used if available. First fill the tank with required volume of water and slowly add granules to the sieve as they dissolve).

Induction hopper:

Follow Stages 1 and 2.

- 3. Half fill the bowl with water.
- 4. Add product until within 2 cm of the water's surface.
- 5 + 6. Open the valve to empty the bowl into the main tank and close when all the contents have emptied. Do not leave the induction valve permanently open or excessive air entrapment will occur. Repeat until the required amount of product has been introduced.

Users must consult the appropriate water regulatory body (EnvironmentAgency/Scottish Environmental Protection Agency) before using the product near water and must obtain their agreement before using this product to control aquatic weeds. Users must apply to the appropriate water regulatory body to determine the maximum allowable 'concentration in based on local conditions before using 'ROUNDUP POWERMAX'

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: 1kg: 5.5 litres dilution with water

(b) Other wipers: 1 kg: 3.8 litres dilution with water'

Trade Mark References

ROUNDUP POWERMAX® is a registered trademark of Monsanto Technology LLC.

Monsanto[™] and the Vine symbol are registered trademarks of Monsanto Technology LLC.

All other brand names referred to are trade marks of other manufacturers in which proprietary rights may exist.

Monsanto does not warrant that the purchase or use of equipment mentioned in this document will not infringe any patent or trade mark registration.

Material Safety Data Sheet

The Safety Data Sheet included in the booklet attached does not form part of the label approved under the Plant Protection Products Regulations 1995. Following the instructions on this Product Label for the specified uses should ensure that the product is used safely and efficaciously for those uses. The information on this Safety Data Sheet is based on the best available information at the time of going to print.

Any updates to this Safety Data Sheet from the date of printing are available on request from https://cropscience.bayer.co.uk/ or call Telephone: 01223 226500



ROUNDUP POWERMAX

A foliar applied herbicide for the control of annual and perennial grass and broad-leaved weeds, before sowing or planting all crops, pre-emergence and pre-harvest in cereals and certain other crops, and set-aside and for use in stubbles, orchards, vineyards, aquatic and non-crop areas.

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

Monsanto Ltd. UK

230 Cambridge Science Park, Milton Road. Cambridge, CB4 0WB, UK. Website: https://cropscience.bayer.co.uk/; Telephone: 01223 226500;

MAPP Number 16373

Protect from frost, store in a cool, dry place. Not for reformulation or repackaging.

No licence is granted under any patent.

For 24-hour emergency information contact Bayer CropScience Ltd. Tel: 00800 1020 3333

This booklet is part of the approved Product Label.

RECOMMENDATION TABLES

AREA OF USE	CROP/SITUATI	TARGET	WEED	APPLICATION	WATER	
/ ((CL/ (O) O)C	ON ON	WEEDS/	INFESTATION	RATE	VOLUME	APPLIC
		USAGE		kg/ha	, 0 20111	, ,
PRE-HARVEST ARABLE CROPS	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS OILSEED RAPE,	Common Couch	1-25 shoots/m² Up to 75 shoots/m² Over 75 shoots/m²	1.0 1.5 2.0	80-250 I/ha	Grain/s 30% at Harvest CEREA OILSEE days LINSEE MUSTA Use high
	MUSTARDS COMBINING PEAS FIELD BEANS		shoots/m² Over 75 shoots/m² Up to 75 shoots/m² Over 75	1.5 2.0	80-250 I/ha	Where suscep Do no RAPE cosecond disease
	LINSEED		shoots/m²			Desicco brown
	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	Perennial broad-leaved weeds and other perennial grasses	All levels/specie s	2.0	80-250 I/ha	may be Effects been to Consultate before At har NETTLE, WILLOW will not WHEAT
	OILSEED RAPE MUSTARDS		All levels/species	2.0	100-250 I/ha#	WEEDS harvest Treated
	COMBINING PEAS FIELD BEANS LINSEED		All levels/species	2.0	80-250 I/ha	horticu # Use h

AREA OF USE	CROP/SITUATI	TARGET	WEED	APPLICATION	WATER	
	ON	WEEDS/	INFESTATION	RATE	VOLUME	APPLIC
		USAGE		kg/ha		
	WINTER and	Harvest	Annual	0.5	80-250	
	SPRING	management	grasses,		I/ha	
	WHEAT,		crop stems			
	DURUM		and			
	WHEAT,		leaves	0.75		
	WINTER and					
	SPRING		Annual			
	BARLEY and		broad-			
	WINTER and		leaved			
	SPRING OATS		weeds			
	OILSEED RAPE	Crop	All	1.5	100-250	
	MUSTARDS	desiccation	levels/specie		I/ha#	
		and annual	S			
	LINSEED	weeds prior to	All	1.5	80-250	
		direct	levels/specie		I/ha	
		combining	S			

ROP/ UATION	TARGET WEEDS/ USAGE	WEED INFESTATION	APPLICATION RATE	WATER VOLUME	APPLICATION TIM
FORE ALL ROPS (edible Id non-	Common Couch	Up to 75 shoots/m² Over 75	1.5 2.0	80-250 I/ha	GUIDANCE Do not cultivate before spraying.
lible)EXCEPT RCHARDS	Other perennial grasses; volunteer potatoes (autumn only)	shoots/m² All levels/species	2.0		For PERENNIAL we allow: - 21+ days gr spraying in spring VOLUNTEER F make ample top gre
	Perennial broad- leaved weeds	All levels/species	2.5		- 5 days before drilling
	Volunteer cereals and annual weeds at small sizes – before growth stage 26 (BBCH scale)	All levels/species	0.75		For ANNUAL weed of a hours before where applications larger weeds in stage (Feb/Mai recommended to before cultivating.
	Volunteer cereals and annual weeds at large sizes – after growth stage 26 (BBCH scale)	All levels/species	1.0		- 48 hours b drilling Allow 7 days bef trees Refer to 'Weeds section and 'Comp Information' for g
FORE RCHARD ANTING	Perennial grasses and broad-leaved weeds	Arable Weeds Pasture Weeds	2.0 2.5		weather and growing of target weeds application
TED CEREALS, LSEED RAPE, DTATOES, JSTARD, ISEED, PEAS, ELD BEANS, GAR BEET, VEDE, TURNIP, NION and LEEK	Volunteer cereals and annual weeds	All levels/species	0.75	80-250 I/ha	CAUTION - Ensure precedes ANY crop
PARAGUS	Annual weeds Perennial grasses Perennial broad- leaved weeds	All levels/species	0.75 2.0 2.5	80- 250I/ha	CAUTION - Ensure precedes ANY emergence

		_								
ROP/	TARGET WEEDS/		EED		LICATION		WATE		4 DDL 10 4 TI	N. 1
UATION	USAGE	INI	FESTATION	RATI kg/h			VOLU	JME	APPLICATION GUIDANCE	
ROP/ UATION	TARGET WEEDS/ USAGE		EED FESTATION	APP RATE	LICATION		WATE		APPLICATIO	AIT NC
GETATION ANAGEMENT	_		nnual eeds	kg/r 0.75 2.0			80-25 I/ha*		GUIDANCE *Rotary atc a water v	misers m
W CENTERY		Pe gro Pe bro	erennial asses erennial oadleaved eeds	2.5			hanc held equip nt (p	d- ome . 15)	Ensure drewithin the range of the property of the contract of	oplet d' ange 200 e under use in c
GREEN COVER ON LAND NO BEING USED FOR CROI PRODUCTION e.g. SET-ASIDE	T DURING D REMOVAL FROM	N		oad- eeds other	Up to shoots/m² Over shoots/m² All levels/s	<u>!</u>	75 75 ecies	2.0		80-250 I/ha or Hand- held equipm nt or tractor mounte
		r -	- autumr ring of year 1 - summe	n/sp only	All levels/s	•		0.75 1.5		weed wiper ((see Mixing Sprayin Section

	AFTER SHORT ROTATION or LONG TERM REMOVAL FROM PRODUCTION	Natural regeneration and cover crop destruction	Annual weeds only Perennial grasses Perennial broad- leaved weeds Perennial broad- leaved weeds as follows; Common ragwort, Nardus (matgrass), Hard rush, Heath rush, Jointed rush, Molinia (purple moor-grass), Sheep's fescue, Red fescue, White Clover (best cut in June and sprayed one month later and Yellow rattle	1.5 2.0 2.5 3.0
AREA OF USE	CROP/ SITUATION	TARGET WEEDS/ USAGE	WEED INFESTATION	APPLICATION RATE kg/ha & WATER VOLUM
IN-CROP (TRACTOR- MOUNTED WICK-TYPE WEED WIPER APPLICATION)	ARABLE CROPS GRASSLAND SET ASIDE	Bolters, weed beet, other weeds	All levels	265g product per 1 water (26% solution) OR 360g product per 2 water in hot, dry condit (18% solution) For 'new generation' water in the manufacture guidance

ORCHARDS (Hydraulic sprayers or hand held weed wipers)	APPLE, PEAR, PLUM, CHERRY, DAMSON	Perennial grasses, broad-leaved weeds Root Suckers	All levels of m species	ost	2.5 18% solution the product hand held we wipers 2.5 18% solution the product hand held we wipers	for ed of for	See Mixing Sprayin section for sp applica ons
ROTATIONAL GRASS, PERMANENT GRASSLAND - DESTRUCTION	GRASS	SHORT ROTATION RYEGRASS, LONGER LEYS AND PERMANENT PASTURE	Short rotation Ryegrass with annual weeds Leys 2-4 years old with perennial grass weeds Long leys 4-7 years old with perennial broad- leaved weeds Permanent pasture See Weed Table on side of bag	1.52.02.5		150 l/h	0-250 a

APPLICATION RATE FOR GRASSLAND DESTRUCTION

1.5 kg/ha 2.0 kg/ha

2.0 kg/ha 2.5 kg/ha

Annual	Meadow-grass	Black-bent	Croc	ning	Bracken**		Red
	•					KEC	
Meadow F	escue	Soft-grass			Clover		
Common	Chickweed	Broad-leaved	Dock	Curled	Common	Sorrel	
Meadow F	oxtail	Dock			Sed	ges	
Common Mouse	-ear Rough	Cock's-foot	Pere	nnial	Common	Nettle	:
Meadow-grass		Rye-grass			Sheep's Sc	orrel	
Dock seedlings		Common Bent			Creeping		Butte
Speedwell	species	Plantains	3		Soft	Rush	
Italian Rye-grass	Timothy	Common Cou	ch	Soft	Creeping	Thistle	Spe
Mayweed specie	es	Brome			Thistle		
		Creeping Bent			Daisy	Tuft	ed
		Yorkshire	Fog		Hairgrass		
					Dwarf This	tle	Yar
					Perennial	Sow-th	nistle

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

AREA OF USE	CROP/ SITUATION	TARGET WEEDS/ USAGE	WEED INFESTATION	APPLICATION RATE kg/ha	WATER VOLUME
VINEYARDS (Table and wine grapes)	TABLE GRAPES WINE GRAPES (inter row)	Perennial grasses and broadleaved weeds	All levels	2.5	200-400 I/ha
AQUATIC	Enclosed waters and land immediately adjacent to aquatic areas	reeds, rushes, sedges, grasses	All stages.	2.5 3.0	200-400 I/ha
NATURAL SURFACES NOT INTENDED TO BEAR VEGETATION, PERMEABLE SURFACES OVERLYING SOIL, ALL SITUATIONS.	Vegetation management	Including farmyards and roadsides, paths and along fences	Annual weeds Perennial grasses and broad-leaved weeds	0.75 2.0-2.5	Hydraulic sprayers (boom and knapsack) at water volumes 80-400 l/ha See Mixing & Spraying section for spot applications.

HARD	Vegetation	Including r	non-	Annual	0.75	Hydraulic
SURFACES,	management	porous f	arm	weeds		sprayers
		yards ro	ads,		2.0-2.5	(boom
		paths	and	Perennial		and
		alongside wo	ılls	grasses and		knapsack
				broad-) at water
				leaved		volumes
				weeds		80-400
						I/ha
						See
						Mixing &
						Spraying
						section
						for spot
						applicati
						ons.