



Roundup[®]

ULTIMATE[™]

(H) - *Herbicide*

GROUP 9 HERBICIDE

MAPP Number 21250

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.

Degraded by micro-organisms/microbes in the soil.

A soluble concentrate containing 450 g/L glyphosate, present as 550 g/L (42.2% 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.

PROTECT FROM FROST

20
Litres

ROUNDUP ULTIMATE

UFI: 1WS1-P03G-1006-F4ED
Contains potassium salt of glyphosate and fatty alkyl ether alkyl amine ethoxylate.

Warning

Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.
Wash hands thoroughly after handling.

Wear protective gloves/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 hazardous-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.



GB304619998a rA3



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

National Poisons Information Centre Dublin: +353 1 809 2166

IMPORTANT INFORMATION: FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE

Crops/situations: Wheat, (including Durum wheat), barley, oats, combining peas, field beans; Oilseed rape, linseed; vining peas, sugar beet, swede, turnip, bulb onion, leek; Mustard; All edible crops (stubble), all non-edible crops (stubble); All edible and non-edible crops (destruction, before sowing/planting); Grassland (destruction); Apple, pear, plum, cherry, damson; Green cover on land not being used for crop production.

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

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.

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 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, hand-held rotary atomisers, weed wiper equipment or spot gun equipment.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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 (do not clean application equipment near surface water/avoid contamination via drains from farmyards and roads).

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP)



permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. **DO NOT ALLOW DIRECT SPRAY** from hand held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years. For guidance on reducing buffer zones see 'Additional Information on LERAPs' under the Company Advisory Information section.

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.

MAPP Number 21250



RECOMMENDATION TABLES

AREA OF USE	TARGET WEEDS/USAGE	CROP OR SITUATIONS	WEED INFESTATION	APPLICATION RATE L/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
PRE-HARVEST ARABLE CROPS	Common Couch	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	1-25 shoots/m ² Up to 75 shoots/m ² Over 75 shoots/m ²	1.6 2.4 3.2	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 LINSEED 14-28 days MUSTARDS 8-10 days
		OILSEED RAPE MUSTARDS	Up to 75 shoots/m ² Over 75 shoots/m ²	2.4 3.2	100-250 L/ha#	
		COMBINING PEAS FIELD BEANS	Up to 75 shoots/m ² Over 75 shoots/m ²	2.4 3.2	80-250 L/ha*	Use high clearance, narrow wheeled tractors, wide booms and crop dividers.
		LINSEED	Up to 75 shoots/m ² Over 75 shoots/m ²	2.4 3.2	80-250 L/ha	DO NOT TREAT CROPS GROWN FOR SEED. Where desiccating crops, check susceptibility of any weeds present.
		Perennial broad-leaved weeds and other perennial grasses	All levels/species	3.2	80-250 L/ha*	Do not attempt to desiccate OILSEED RAPE or MUSTARD crops with significant secondary growth, uneven maturity, disease or stress.
		OILSEED RAPE MUSTARDS COMBINING PEAS FIELD BEANS	All levels/species All levels/species All levels/species	3.2 3.2 3.2	200-250 L/ha 80-250 L/ha*	Desiccate LINSEED when seeds are light brown and capsules brown; stems/leaves may be yellow/green. Effects on brewing and baking have not been tested. Consult grain merchant or processor before use. # Use higher volumes for dense canopies
	Harvest management	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	Annual grasses, crop stems and leaves	0.8	80-250 L/ha*	At harvest management rates, ANNUAL NETTLE, VOLUNTEER POTATO, ROSEBAY WILLOW HERB and POLYGONUM WEEDS will not be susceptible. WHEAT crops, WHEAT VOLUNTEERS and BROAD-LEAVED WEEDS may require up to 14 days before harvest. Treated straw must not be used as a horticultural mulch. *Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns.
			Annual broad-leaved weeds	1.2		
	Crop desiccation and annual weeds, prior to direct combining	OILSEED RAPE MUSTARDS LINSEED	All levels/species	2.4	100-250 L/ha#	
			All levels/species	2.4	80-250 L/ha	

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/m ² Over 75 shoots/m ²	2.4 3.2	80-250 L/ha*	Do not cultivate immediately before spraying. For PERENNIAL weed control, allow: - 21+ days growth before spraying in spring - VOLUNTEER POTATOES to make ample top growth - 5 days before cultivating or drilling For ANNUAL weed control, allow: - 24 hours before cultivating - 48 hours before direct drilling Allow 7 days before planting trees
			All levels/species	3.2		
			All levels/species	4.0		
			All levels/species	1.2		
POST SOWING/ PLANTING, PRE-EMERGENCE OF THE CROP	Volunteer cereals and annual weeds	LISTED CEREALS OILSEED RAPE, POTATOES, MUSTARD, LINSEED, PEAS, FIELD BEANS, SUGAR BEET, SWEDE, TURNIP, ONION & LEEK	Arable weeds Pasture weeds	3.2 4.0	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.
			All levels/species	1.2		
ALL EDIBLE AND NON-EDIBLE CROPS (DESTRUCTION, BEFORE SOWING/ PLANTING)	Vegetation management	-	Annual weeds Perennial grasses Perennial broad-leaved weeds	1.2 3.2 4.0	80-250 L/ha* or hand-held equipment	Do not use under polythene or glass. Do not use in or alongside hedgerows *Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns

AREA OF USE	TARGET WEEDS/USAGE	CROP/SITUATION	WEED INFESTATION	APPLICATION RATE L/ha	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
GREEN COVER ON LAND NOT BEING USED FOR CROP PRODUCTION EG "SET ASIDE"	Common Couch	BEFORE or DURING REMOVAL FROM PRODUCTION	Up to 75 shoots/m ² Over 75 shoots/m ²	2.4 3.2	80-250 L/ha* or hand-held equipment or tractor mounted weed wiper	Before using on land taken out of production as part of a grant aided scheme, ensure compliance with the management rules of that scheme. Do not 'top' or cultivate immediately before application. For PERENNIAL weed control, allow:- - 21+ days growth before spraying in spring - 5 days before cultivating or drilling. For ANNUAL weed control, allow:- - 24 hours before cultivating. Do not direct drill after set aside. * Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns. Avoid applications during stem elongation as reduced control and re-spray is likely.
			All levels/species	3.2		
			All levels/species All levels/species	1.2 2.4		
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 Long leys 4-7 years old with perennial broad-leaved weeds Permanent pasture See Weed Table below.	2.4 3.2 4.0 4.8	150-250 L/ha or hand held equipment or tractor mounted weed wiper	Best control of annual grasses is achieved between full ear emergence and senescence. +Only for weeds listed as per grassland destruction application rate table below. 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. 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, OR long leys with some mat, in the spring following autumn application.
			Annual weeds only Perennial grasses Perennial broad-leaved weeds as listed below	2.4 3.2 4.8+		

APPLICATION RATE FOR GRASSLAND DESTRUCTION							
2.4 L/ha		3.2 L/ha		4.0 L/ha		4.8 L/ha	
Annual Meadow-grass	Meadow Fescue	Black-bent	Creeping Soft-grass	Bracken**	Red Clover	Common Ragwort	<i>Nardus</i> (Mat grass)
Common Chickweed	Meadow Foxtail	Broad-leaved Dock	Curled Dock	Common Sorrel	Sedges	Hard Rush	Red Fescue
Common Mouse-ear	Rough Meadow-grass	Cock's-foot	Perennial Rye-grass	Common Nettle	Sheep's Sorrel	Heath Rush	White Clover*
Dock Seedlings	Speedwell species	Common Bent	Plantains	Creeping Buttercup*	Soft Rush	Jointed Rush	Yellow Rattle
Italian Rye-grass	Timothy	Common Couch	Soft Brome	Creeping Thistle	Spear Thistle	<i>Molinia</i> (Purple Moor-grass)	Sheep's Fescue
Mayweed species		Creeping Bent	Yorkshire Fog	Daisy	Tufted Hairgrass		
				Dwarf Thistle	Yarrow		
				Perennial Sow-thistle			

* 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, broad-leaved weeds Root suckers	APPLE, PEAR, PLUM, CHERRY, DAMSON	All levels of most species	4.0	Hydraulic sprayers including hand held 200-400 L/ha or Rotary atomisers at 40 L/ha	Spray AFTER autumn leaf-fall and BEFORE: Apples, pears - green cluster stage Stone fruit - white bud stage Treat root suckers in late spring only. Trees must have been established 2+ years. Avoid contact with tree 30+ cm above ground.
			-	4.0		
IN-CROP (TRACTOR-MOUNTED WEED WIPER APPLICATION)	Botlers, weed beet, other weeds	ARABLE CROPS AND GRASSLAND SET ASIDE	All levels	1:1.5 dilution with water OR 1:2.75 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