MENTOR[®]



A foliar applied translocated herbicide for the control of annual and perennial grass and broad-leaved weeds before sowing or planting all crops.

For use pre-harvest in cereals, oil seed rape, mustard, combining peas, field beans, linseed. For destruction of grassland, and use in stubbles, orchards, aquatic, amenity and non-crop areas. For the control of emerged weeds in industrial and amenity situations and in forestry.

Degraded by micro-organisms/microbes in the soil.

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.

MAPP Number 21214

MENTOR

UFI: KPF1-E0Y7-K009-RH20

Contains 360 g/L glyphosate, present as

441 g/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 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.



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





PROTECT FROM FROST

IRECTIONS 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.

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

DO NOT MIX. STORE OR APPLY MENTOR IN GALVANISED OR UNLINED STEEL CONTAINERS OR SPRAY TANKS.

DO NOT leave spray mixtures in tank for long periods and make sure tanks are WEL

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 b drought, high temperatures, a covering of dust, flooding or frost at, or immediately after application, otherwise poor control may result

Do not spray in windy conditions as drift onto desired crops or vegetation could severely damage or destroy them.

After application, large concentrations of decaying foliage, stolons, roots or rhizomes should be dispersed or buried by thorough cultivation before crop drilling.

Applications of lime, fertilizer, farmyard manure and pesticides should be delayed until 5 days after application of MENTOR. TREATED POISONOUS PLANT SPECIES MUST BE REMOVED BEFORE REGRAZING 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 Following crops or died and there is no visible sign of the dead weed. Do not include treated Ragwort in hay or

MENTOR is a foliar acting herbicide which

controls annual and perennial grasses and most broadleaved weeds when used as directed. It important that all weeds are at the correct growth stage when treated, otherwise some re-growth may occur and this will need re-treatment.

Apply MENTOR herbicide once grasses and broadleaved weeds have emerged and they have ACTIVELY GROWING green leaves

- PERENNIAL GRASSES must have a full emergence of healthy, green leaf, (Commor Couch, for example, becomes susceptible a the onset of tillering and new rhizome growth commences 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.
- 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.

 OTHER SPECIES - recommendations for specific Areas of Use are given in the Recommendation Tables, pages 2 -

 This product will not give an acceptable level Protection Practices by of control of Horsetails (Equisetum arvense) - Following label recommendations repeat treatment will be necessary.

Upon soil adsorption the herbicidal properties of

MENTOR are lost permitting the drilling of crops The implementation of good spraying practice 48 hours after application. Planting of trees, shrubs etc may take place

7 days after application, Grass seed may be sown from 5 days after treatment: s the 'Recommendation Tables' for specific restrictions on direct drilled crops.

Weed resistance strategy There is low risk for the development of weed

manufacturer (Baver).

resistance to MENTOR. Strains of some annual weeds (e.g. Black-grass, Wild oats and Italian Ryegrass) have developed resistance to herbicides which may lead to poor control A strategy for preventing and managing suc 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 produc

Growers are encouraged to implement a weed resistance strategy based on (a) Good Agricultural Practices and (b) Good Plant

- The adoption of complimentary weed control
- Minimising the risk of spreading weed Pre-harvest Winter wheat, winter barley, winter oats, spring wheat.
- spring barley, spring oats, durum wheat combining page field bean to maintain effective weed of Using the correct nozzles t
- Monitoring performance a

Sprayer Hygiene

#Crop Specific Information

- Crops/situations

- coverage Application only weather conditions
- unexpected results to Bay

It is essential to thoroughly tanks, pumps and pipelines and nozzle or disc assemblies, with a recommended detergent cleaner, between applying this product and other pesticides to avoid contamination from pesticide residues. Traces of MENTOR left in the equipment may seriously damage or destroy

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

7 days before harvest

the following crop

After harvest but before green

After harvest (post leaf fall) but

before white bud stage

24 hours before cultivating

s	Maximum individual dose (litres product/ hectare):	Maximum total dose (litres product/ hectare/ crop/ annum):	Latest time of application:

ea control	wneat, combining pea, neid bean			
s to maximise ly under appropriate and reporting any ayer CropScience Ltd.	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
, joi 0. 0 po 0.0 00	Oilseed rape and linseed	4.0	4.0	14 days before harvest
y clean-out spray	Mustard	4.0	4.0	8 days before harvest

5.0

All edible crops (stubble). 5 days before drilling or planting of all non-edible crops (stubble) 2 days before the drilling or planti of the following crop or 24 hours before cultivating All edible and non-edible crops (destruction, before sowing/planting) 5 days before harvest, grazing of

Apple and pear orchards

for crop production

hard surfaces

Amenity vegetation

Cherry, plum and damson orchards.

Green cover on land not being used

Non-crop including natural surfaces

not intended to bear vegetation.

permeable surfaces overlying soil.

e.g. Knapsack Hypro 1.2 – 2.4 Cooper Pealer Floodie

Maximum individual dose | Maximum total | Latest time of application:

product/ hectare/

crop/ annum):

dose (litres

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

For stump application the maximum concentration must not exceed 200ml product (i.e. a 20% solution).

(litres product/ hectare):

200 ml/litre of water

(20% solution of product

in water

2.0 ml per 10 cm

diameter (or less) of tree

When applying through rotary atomisers, the spray droplet spectra produced must be of a minimum Volume Median.

Weed wipers may be used in any recommended crop where the wiper or chemical does not touch the growing crop

a) Conventional Hydraulic Sprayers

When using weed wipers, the maximum concentrations used must not exceed the following:

1.2 dilution with water

1:1 dilution with water

Crops/situations

weed control

stump application

Forest nursery, farm forest:

Other Specific Restrictions

Diameter (VMD) of 200 microns

(a) Weed wiper Mini

(b) Other Wipers

Mixing and spraying

chemical thinning (by injection)

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

Medium Volume Application (150–300 L/ha Avoid high water volumes (>300 L/ha) which used to minimise the risk of drift: may lead to run-off from the treated vegetation resulting in reduced control. Low drift nozzles such as air induction and pre-orifice types producing a medium or coarse spray (BCPC Tractor definition) should be used to minimise the risk of

areen. red Hypro 04-F110, 08-F110

Tee Jet 11004, 11008

Low Volume Application (minimum 80 L/ha) reducing pressure and the appropriate nozzle selection. Low drift nozzles which produce a **OUICK GUIDE FOR HAND-HELD SPRAYERS** medium spray quality (BCPC definition) should be Knapsack sprayers should be calibrated by individual users, but as a guide where standard nozzles* are

e.g. Knapsack Cooper Pegler VLV 100 Hypro AN 1.0

Knapsack: Half fill the spray tank with clean

Perennials present water, add the correct amount of MENTOR and top up with water. Mix thoroughly. * Applying 200 L/ha when walking at 1 metre per second

e) Knapsack Sprayer Applicators Do not tank mix MENTOR with adjuvants, pesticides

solution (e.g. 200 ml MENTOR made up to 10 litres).

Apply 5 ml of spray to target weed using narrow

0.3 20 28 35

Amount of MENTOR

(ml) per 5 litres of spray solution for

targeted dosages of

3.0 L/ha | 4.0 L/ha | 5.0 L/ha

85 | 110 | 140

of spray solution

500 m²

500 m²

the top and shake gently to ensure

cone TG-3 or TG-5 nozzle.

individual weeds

Rate in litres | Dilution in knapsack | Dilution factor | Area covered by 10 litres

1 in 67

1 in 40

Tractor Mounted: To avoid foaming do not use ton
 HAND-HELD FOUIPMENT: SPECIFIC GUIDANCE

tank agitation. Half fill the spray tank with clean

water, start gentle agitation, then add the correct

amount of MENTOR. Top up the tank with wate

to the required level. Use of a defoamer may be

b) Rotary Atomisers – for use in orchards

When rotary atomisers are used to apply MENTO

ensure that the droplet diameter falls within the

MENTOR may be applied through the weed wiper

mini. Use a concentration of 1 part MENTOR to 2

Care should be taken to avoid dripping onto wanted

fitted the dilutions in the table below should apply.

per hectare | sprayer (mls per litre

5 | 25 |

parts of water and add a scarlet dve if required.

Enso attachment to rotary saws: This technique

specific to scrub clearance in forestry. A water-

soluble dve may be added to MENTOR to help

range 200-300 microns for all uses.

c) Hand-held Wipers

d) Cut Stump Application

identify treated stumps.

Annuals & seedlings only

or fertilisers except as advised by Bayer Crop When used at a walking speed of 1 m/sec to apply Science. For up to date information on compatible swath of 1 m width, most knapsack sprayers deliver products contact Bayer CropScience Limited. 200 L/ha spray volume (or 10 litres per 500 m²). MENTOR is compatible with Mixture B (ADJ 0161) To apply 4.0 L/ha of MENTOR, therefore, use a 2

used Mixture B may be added to the spray tank When used as above, knapsack sprayers fitted with solution, at a rate of 2% of the final water volume. low volume nozzles typically deliver 100 L/ha spray for all pre-plant and post-plant directed sprays on volume (or 10 litres per 1000 m²). To apply 4.0 L/l DO NOT APPLY WITH MIXTURE B TO EDIBL MENTOR in this case, use a 4% solution.

CROPS. OR GRASSLAND WEEDS. Filling the sprayer – hand-held machines Do not tank-mix MENTOR when using rotary Stir the correct amount of MENTOR into the sprayer

atomiser sprayers. half filled with clean water. Top up with water, close For hydraulic sprayers: maintain continuous

agitation when using MENTOR in tank mixture. f) Spot Gun Applicators – for treatment of

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

Where conventional hydraulic sprayers are being

DMPANY ADVISORY INFORMATION

This section is not part of the Product Label under nozzles are recommended. the Plant Protection Products Regulations 1995 and New generation weed winers provides additional advice on the product.

General Information

To maximise the safe use of MENTOR to operator, consumer and environment, the label Once MENTOR has been diluted in the spray tank. recommendations and the DEFRA/HSC publication "Code of Practice for using Plant Protection Products, 2006'should be adhered to.

MENTOR is an advanced glyphosate formulation.

broad-spectrum activity. It is taken up by foliage and translocated to underground roots, rhizomes and stolons, providing control of both annual and perennial grasses and broad-leaved weeds MENTOR is rapidly adsorbed onto particulate

Sprayer Hygiene

It is essential to thoroughly clean-out spray tanks pumps and pipelines and nozzle or disc assemblies. properties of MENTOR are lost, permitting drilling of with a recommended detergent cleaner, between crops within 48 hours of application. When used as applying this product and other pesticides to avoid directed, any water subjected to MENTOR spray drift contamination from pesticide residues.

The product must only be transferred and measured

Remove the tamper evident plastic cap from valve

and rinse the equipment in line with the instructions

before placing in the storage position.

the inside - external clean only.

ensuring that the transfer system is clean and empty

The container must be empty of product and left in a

clean condition for collection. Do not attempt to rinse

Follow the guidance on the disposal of surplus spray

glyphosate, is practically immobile in soils and is. solution, tank washings, concentrate and containers therefore, unlikely to contaminate groundwater. as given in Section 5 of DEFRA/HSC publication "Code of Practice for using Plant Protection Symptoms of treatment are generally first seen 7-1

Snraver Hygiene

These take the form of leaf reddening followed

by vellowing and are usually quicker to appear on using a closed transfer system that meets or exceeds grasses than on broad-leaved weeds. Reaction of British Standard BS 6356 Part 9. If any doubt exists regarding equipment suitability contact the equipment manufacturer or your agronomist for Take extreme care to avoid drift, particularly when further advice.

drift nozzles such as 'air induction' and 'pre-orifice unit fitted to the top of the IBC. Attach the coupler of the transfer system as instructed in the equipment manual to the IBC and operate using the equipment All sprayers should always be calibrated before use manufacturer's instructions to transfer the required amount of product. Remove the coupling after use

This is essential when nozzles are changed or i different dose of product is to be applied.

matter in soils and water and is quickly degraded

by the micro-organisms present in soil and aquatic

bottom sediments. Upon adsorption, the herbicidal

may be used immediately for irrigation purposes.

Until degraded, the active ingredient in MENTOR.

days, or longer (if growth is slow), after spraying.

using near or alongside hedgerows. The use of low

Symptoms on the weeds

Unused Spray Mixture

nettles is slow.

it should be used as soon as possible. However, unexpected delays occur the diluted spray can be safely stored. Agitate well before use. Storage for MENTOR herbicide is a foliar-acting herbicide with longer than 3 days may result in reduced efficacy.

Sprayer Maintenance

Ensure the sprayer is in good working order and replace damaged, worn or malfunctioning parts before use. Carry out maintenance according to the instructions of the sprayer manufacture

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All other brand names referred to are trademarks of other manufacturers in which proprietary rights ma

Trade Mark References

Telephone: 01223 226500 Website: https://cropscience.baver.co.uk For 24-hour emergency information contact This product is a soluble concentrate containing 360 g/L glyphosate, present as

441 g/L (35.3% w.w.) of the potassium sa

Baver CropScience Ltd. Tel: 0330 678 3382 (24 hr) National Poisons Information Centre UK: 0344 892 011 (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 USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY HERBICIDE Wheat, (including Durum wheat), barley, oats, combining pea, vining pea, field bean:

Bayer CropScience Ltd

230 Cambridge Science Park, Milton Road, Cambridge, CB4 OWB, UK.

Oilseed rane, 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; Amenity vegetation:

Forest nursery, forest (weed control, stump application and chemical thinning).

Maximum individual dose: Maximum number of treatments: Full details are given in the Statutory Are

Latest time of application:) on the attached leaflet Other specific restrictions: \ \ \ \(\text{(see Crop Specific Information - marked #)} \)

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE

FETY 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 whe 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 weedwiper equipment and cut stump treatments.

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

Environmental protection

Do not contaminate water with the product or its containe

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

Storage and disposal

KEEP AWAY EROM FOOD DRINK AND ANIMAL FEDINGSTHEES

KEEP OUT OF REACH OF CHILDREN. KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place

EMPTY CONTAINER COMPLETELY and dispose of safely. 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

protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

* However, engineering controls may replace personal

hazardous waste.

safely. Triple rinsed containers may be disposed of as non-

RECOMMENDATION TABLES

AREA OF USE	TARGET WEEDS/USAGE	CROP/SITUATION	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE	Ì
PRE-HARVEST	Common Couch	WINTER and SPRING WHEAT, DURUM WHEAT,	1 to 25 shoots/m ²	2.0	80-250 L/ha*	Grain/seed moisture must not exceed 30% at spraying.	
ARABLE CROPS	CROPS	WINTER and SPRING BARLEY and WINTER and	Up to 75 shoots/m ²	3.0		Harvest intervals:	
		SPRING OATS	Over 75 shoots/m ²	4.0		CEREALS, PEAS, BEANS 7+ days	
		OILSEED RAPE	Up to 75 shoots/m ²	3.0	100-250 L/ha#	OILSEED RAPE 14-21 days	
		MUSTARDS	Over 75 shoots/m ²	4.0		LINSEED 14-28 days - MUSTARDS 8-10 days	
		COMBINING PEAS	Up to 75 shoots/m ²	3.0	80-250 L/ha*	Use high clearance, narrow wheeled tractors, wide booms and crop dividers.	
		FIELD BEANS	Over 75 shoots/m ²	4.0		DO NOT TREAT CROPS GROWN FOR SEED.	
		LINSEED	Up to 75 shoots/m²	3.0	80-250 L/ha*	Where desiccating crops, check susceptibility of any weeds present.	
			Over 75 shoots/m²	4.0		Do not attempt to desiccate OILSEED RAPE or MUSTARD crops with significant secondary	
	Perennial broad-leaved	WINTER and SPRING WHEAT. DURUM WHEAT.	All levels/species	4.0	80-250 L/ha*	growth, uneven maturity, disease or stress.	
	weeds and other	WINTER and SPRING BARLEY and WINTER and	7 III 10 FOIO, OPOOIOO	1.0	30 200 E/110	Desiccate LINSEED when seeds are light brown and capsules brown; stems/leaves may be vellow/green.	
	perennial grasses	SPRING OATS				Effects on brewing and baking have not been tested. Consult grain merchant or processor	
		OILSEED RAPE	All levels/species	4.0	200-250 L/ha	before use.	
		MUSTARDS				At Harvest management rates, ANNUAL NETTLE, VOL. POTATO, ROSEBAYWILLOW HERB	ı
		COMBINING PEAS	All levels/species	4.0	80-250 L/ha*	and POLYGONUM WEEDS will not be susceptible. WHEAT crops, WHEAT VOLUNTEERS and BROAD-LEAVED WEEDS may require up to 14 days before harvest.	
		FIELD BEANS	•			Treated straw must not be used as a horticultural mulch.	
		LINSEED	All levels/species	4.0	80-250 L/ha	*Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls	
	Harvest management	WINTER and SPRING WHEAT, DURUM WHEAT,	Annual grasses, crop stems	1.0	80-250 L/ha*	within the range 200-300 microns.	
	narvest management	WINTER and SPRING BARLEY and WINTER and	and leaves	1.0	00-230 L/11a	# Use higher volumes for dense canopies.	
		SPRING OATS	Annual broad-leaved weeds	1.5			
	Crop desiccation and	OILSEED RAPE	All levels/species	3.0	100-250 L/ha#		
	annual weeds, prior to	MUSTARDS	·				
	direct combining	LINSEED	All levels/species	3.0	80-250 L/ha		
ALL EDIBLE	Vegetation	-	Annual weeds	1.5	80-250 L/ha*	Do not use under polythene or glass.	
AND NON-	management		Perennial grasses	4.0	or hand-held	*Rotary atomisers may be used at a water volume of 40 l/ha. Ensure droplet diameter falls	Ī
EDIBLE CROPS (DESTRUCTION,			Perennial broad-leaved weeds	5.0	equipment	within the range 200-300 microns	-
BEFORE					(See mixing and	Apply the annual weed dose at least 2 days before sowing/planting.	Ļ
SOWING/					spraying section)	Apply at perennial weed doses at least 5 days before sowing/planting.	
PLANTING)						Do not use in or alongside hedgerows	
POST SOWING/	Volunteer cereals and	LISTED CEREALS	All levels/species	1.5	80-250 L/ha*	CAUTION – Ensure that spraying precedes ANY crop emergence.	
PLANTING, PRE- EMERGENCE OF THE CROP	annual weeds	OILSEED RAPE, MUSTARD, LINSEED, PEAS, FIELD BEANS, SUGAR BEET, SWEDE, TURNIP, ONION and LEEK				* 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	AREA OF USE	TARGET WEEDS/USAGE	CROP/SITUATION	WEED INFESTATION
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:	ORCHARDS	Perennial grasses and broad-leaved weeds Root suckers	APPLE, PEAR, PLUM, CHERRY, DAMSON	All levels of most species
PRE-PLANTING	Other perennial grasses; volunteer potatoes (autumn only)		All levels of all species	4.0		- 21+ days growth before spraying in spring - VOLUNTEER POTATOES to make ample top growth - 5 days before cultivating or drilling				
	Perennial broad-leaved weeds		All levels of all species	5.0]	For ANNUAL weed control, allow: - 24 hours before cultivating - 48 hours before drilling Allow 7 days before planting trees				
	Volunteer cereals and annual weeds		All levels of all species	1.5			IN-CROP	Deltare was disease attent	ARABLE CROPS AND	All levels
	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.	(TRACTOR-MOUNTED WEED WIPER)	Bolters, weed beet, other weeds	GRASSLAND SET ASIDE	All levels
GREEN COVER ON LAND NOT BEING USED FOR CROP	Common Couch	BEFORE or DURING REMOVAL FROM PRODUCTION	Up to 75 shoots/m² Over 75 shoots/m²	3.0 4.0	80-250 L/ha* or hand-held equipment	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. a Notary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns.	APPLICATION)			
PRODUCTION E.G. "SET ASIDE"	Perennial broad-leaved weeds and other perennial grasses	THOUSENION	All levels/species	4.0	or tractor mounted		NATURAL SURFACES	Vegetation management	Including farmyards roadsides, paths, and along fences and walls	Annual weeds Perennial grasses and broad-leaved weeds
	Annual weeds: • Early autumn/spring • Late spring/summer		All levels/species All levels/species	1.5 3.0	weed wiper		NOT INTENDED TO BEAR VEGETATION, PERMEABLE SURFACES OVERLYING SOIL.			
	Natural regeneration and cover crop destruction	AFTER SHORT ROTATION or LONG TERM REMOVAL FROM PRODUCTION	Annual weeds only Perennial grasses Perennial broad-leaved weeds	3.0 4.0 5.0	or 200-300 microns. (DESTRICTION					
		THOMIT HODGOTION	Perennial broad-leaved weeds as listed below.	6.0+	tractor mounted weed wiper	+Only for weeds listed as per grassland destruction application rate table below	HARD SURFACES	Vegetation management	Including farmyards roadsides, paths, hard	Annual weeds Perennial grasses and
GRASSLAND - DESTRUCTION	Short rotation Ryegrass, longer leys and permanent pasture	GRASS	Short rotation Ryegrass with annual weeds Leys 2-4 years old with perennial	3.0	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			surfaces and along fences and walls	broad-leaved weeds
			grass weeds	4.0		the sward.				
			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.				
			Permanent pasture See Weed Table	6.0		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.	AMENITY VEGETATION	Vegetation management	Areas of semi-natural or ornamental vegetation including	Annual weeds

Perennial grasses and broad-leaved weeds

All species

trees. Areas of

bare soil around ornamental plants or areas intended for ornamental planting or clearance of allotments

APPLICATION RATE L/HA

4.0 - 5.0

4.0-5.0

WATER VOLUME

200-400 L/ha

Rotary atomizers at 40 L/ha

80-400 L/ha

rotary atomisers* at water volumes

40 L/ha or hand-held equipment.

See Mixing & Spraying section.

80-400 L/ha

rotary atomisers* at water volumes 40 L/ha or hand-held equipment. See Mixing & Spraying section.

1:1 dilution with water

1:2 dilution with water in hot, dry conditions.

For 'new generation' wipers consult the manufacturer for

guidance.

APPLICATION TIMING AND GUIDANCE

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.

Weeds must be 10+ cm taller, and wiper 5+ cm higher, than desired vegetation.

Contact Bayer or your distributor for specific recommended weed wiper applicators.

POISONOUS WEEDS and grazing/mowing interval – See GRASSLAND section. If

Ragwort is present, the guidance in the 'DIRECTIONS FOR USE' must be followed.

including those in the 30 cm swath covering the kerb edge and road gulley - do not

Hydraulic sprayers, rotary atomisers or weed wipers may be used.

applications, 2 weeks apart, from early July to early August.

Hydraulic sprayers (boom and Apply this product carefully. Ensure spraying takes place only when weeds are

knapsack) at water volumes actively growing (normally March to October) and is confined to only visible weeds

DO NOT USE IN OR ALONGSIDE HEDGEROWS.

DO NOT USE UNDER POLYTHENE OR GLASS.

Wipe dense populations twice, in opposite directions. BOLTING BEET requires three

Hydraulic sprayers including hand held | Spray AFTER autumn leaf-fall and BEFORE:

Hydraulic sprayers (boom and Do not use under polythene or glass.

200-300um

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

FORESTRY/FARM FORESTRY WEED CONTROL

MENTOR 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	3.0	Hand held equipment. Knapsack: Apply as a 2% concentration or Weed wiper mini: apply as a concentration of 1 part MENTOR to 2 parts water (see	It is ESSENTIAL to use a TREE GUARD for all applications made in the growing seat 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 growth of crop has hardened. (*) For improved control of Rhododendron apply 6.4 L/ha MENTOR, adding Mixturn (ADJ AO161) at 2% of spray volume. Application using a weed wiper is not suitable.
		(excluding Rhododendron) Heather (peat soils) Heather (mineral soils) Rhododendron (*)	4.0 6.0 10.0	Mixing & Spraying section)	
`	Grass weeds: - Lowland areas - Upland areas	Black Bent, Cock'sfoot, 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)	1.5 2.0	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, includ CHRISTMAS TREES. Species safe to spray when fully dormant and leader growth has hardened: Corsican, Lodgepole and Scots Pine, Norway Spruce, Sitka Spruce, Lawson Cypre Western Red Cedar. Douglas Fir and Noble Fir — safe to spray when fully dormant and leader growth ha hardened but NOT in spring. If overall application takes place after the optimum timing weed control may be reduced. It is advisable to spray a limited area of forest to test crop safety under lo conditions before widespread overall application in subsequent years. These recommended application rates refer to forestry usage only.
	Beech & Birch	All levels of all species All levels of all species All levels of all species	2.0 2.0 3.0		Inadequate control may result if used in other areas. <u>Caution</u> : The timing of hardening of leader growth varies considerably between locations and between seasons. It may occur as early as the end of July or be dela to October or later. To avoid damage to 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 MENTOR in water 20% solution of MENTOR in water		Apply the solution to saturate the rim of the newly cut surface, with a suitably adar 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 undiluted product. Note: for ease of identification of treated areas a suitable, commercially available,
FORESTRY: - CHEMICAL THINNING BY INJECTION OF TREE STEMS	Coniferous and deciduous species	-	2 ml neat MENTOR per cut per 10	cm diameter (or less) of tree	water-soluble dye may be added to the prepared spray solution 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 no in the period of active sap flow in the spring/early summer.