

HY-MCPA

Contains 500g per litre (44.2% w/w) MCPA as the dimethylamine salts.
Formulation: Soluble concentrate

A selective herbicide for control of broad-leaved weeds in cereals, undersown cereals, permanent and rotational grassland, linseed, managed amenity turf, amenity grassland and non-cropped areas.

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

MAFF 06293

HY-MCPA is a registered product of Agrichem Limited which is an associated company of Agrichem (International) Limited.

Approval Holder:

A H Marks and Company Limited
Wyke
Bradford
West Yorkshire BD12 9EJ

Marketing Company:

Agrichem (International) Limited,
Industrial Estate, Station Road,
Whittlesey, Cambridgeshire PE7 2EY
Tel: 01733 204019 Fax: 01733 204162

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL, HORTICULTURAL OR INDUSTRIAL HERBICIDE

Crop	Maximum Individual Dose (product)	Maximum number of Applications	Latest timing
Wheat, barley and oats	3.5 l/ha	1 per crop	Before 1st node detectable
-undersown with red clover	1.4 l/ha	1 per crop	Before 1st node detectable
-undersown with grass only	2.7 l/ha	1 per crop	Before 1st node detectable
Linseed	1.8 l/ha	1 per crop	Before crop is 15cm high
Permanent Grassland	3.5 l/ha	2 per annum	-
Rotational Grass	1.4 l/ha	1 per annum	-
- grass seed crops	3.2 l/ha	1 per crop	Five weeks before heading
Managed Amenity Turf	3.5 l/ha	-	-
Amenity Grassland	6.0 l/ha	-	-
Natural surface not intended to bear vegetation, permeable surfaces overlying soil and hard surfaces.	6.0 l/ha	-	-

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.

Net contents: 5L-20L 

PROTECT FROM FROST.

T)0261h

SAFETY INFORMATION

Classification according to CHIP Regulations (CHIP 3.1)

Risk Phrases



Xn-HARMFUL

R22 HARMFUL IF SWALLOWED

R41 RISK OF SERIOUS DAMAGE TO EYES

R52/53 HARMFUL to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S2 KEEP OUT OF REACH OF CHILDREN

S26 IN CASE OF CONTACT WITH EYES RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE

S39 WEAR EYE/FACE PROTECTION.

S46 IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL

S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

To avoid risk to man and the environment comply with the instructions for use.

All above must be on front panel together excepting the company NAME AND ADDRESS.

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 (FACE SHIELD) when handling the concentrate.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental Protection

*KEEP LIVESTOCK OUT of treated areas for at least two weeks following treatment and until poisonous weeds such as ragwort have died and become unpalatable.

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

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.
WASH OUT CONTAINER THOROUGHLY, and dispose of safely.
* DO NOT RE-USE CONTAINER for any purpose.
PROTECT FROM FROST

Medical Advice

IF YOU FEEL UNWELL SEEK MEDICAL ADVICE (show label where possible).

DIRECTIONS FOR USE

IMPORTANT INFORMATION: This information is approved as part of the Product label. All instructions for use must be read carefully in order to obtain safe and successful use of this product.

Restrictions

Do not roll or harrow crops within a week of spraying.
Do not apply before undersowing.
Do not apply to crops suffering from stress as a result of frost or drought.
Do not apply during drought, rain or if rain is expected.

Warnings

HY-MCPA is active at low concentrations.

Do not spray in windy conditions as any spray drift may cause damage to neighbouring crops. The following crops are particularly susceptible: Beet, Brassicae (turnips, swedes, oilseed rape) and most market garden crops including lettuce and tomatoes, pears and vines.

Crop Specific Information.

CEREALS

HY-MCPA may be used on all commercial varieties of winter and spring sown wheat, winter and spring sown barley and winter and spring sown oats.

HY-MCPA is not recommended for use on rye.

Water Volume

On cereals use a rate of 100 to 400 litres of water per hectare.

Use the higher rate in dense stands of cereals, or if weed growth is dense.

Spray Quality

Apply as a medium spray (as defined by BCPC). A spray pressure of 2-3 bar is recommended.

Rate of Application and Timing

HY-MCPA should be applied when the crop is actively growing and is at the correct growth stage. The best results will be obtained if spraying is done while the majority of annual weeds are at the seedling stage and perennials when the flower bud is forming.

Use the appropriate rate as indicated by the weed control table.

Winter Wheat, Barley and Oats:

Apply HY-MCPA at between 1.4 and 3.5 l/ha, depending on the weed species present. Apply in the spring from the leaf sheath erect stage until before the first node is detectable. Do not apply in autumn, winter, during frosty weather or if frosts are expected following application.

Spring Wheat and Barley:

Apply HY-MCPA at between 1.4 and 3.5 l/ha, depending on the weed species present. Apply from the five leaf stage until before the first node is detectable.

Application may be made from the three leaf stage if the lower rate of 1.4 l/ha is used. Application under very hot conditions at later timings can cause ear damage if the crop comes under stress at or after application.

Barley is particularly subject to malformation and particular attention must be paid to the correct growth stage if the crop is intended for malting.

Spring Oats:

Apply HY-MCPA at between 1.4 and 3.5 l/ha, depending on the weed species present. Apply from the one leaf stage until before the first node is detectable.

Undersown Cereals:

Red Clover

Apply HY-MCPA at up to 1.4 l/ha to cereals undersown with red clover.

Application should be made when the red clover has at least two trifoliate leaves, and the cereal crop is at the correct growth stage, as listed above.

Only apply if the weeds canopy is dense and covers most of the clover seedlings. Some damage to red clover must be expected, but this will normally be out-grown. Do not apply if white clover is present.

Grasses Only

Apply HY-MCPA at up to 2.7 l/ha to cereals undersown with grasses only. Application should be made when the grasses have begun to tiller, and the cereal crop is at the correct growth stage, as listed above.

Weeds Controlled in Cereals

HY-MCPA will control the following weed species at the rates and growth stages indicated.

Susceptible

Controlled by 1.4 l/ha, up to six expanded true leaves or up to 100mm across/high.

Black Mustard	<i>Brassica nigra</i>	Field Penny-cress	<i>Thlaspi arvense</i>
Charlock	<i>Sinapis arvensis</i>	Treacle Mustard	<i>Erysimum cheiranthoides</i>
Fat Hen	<i>Chenopodium album</i>	White Mustard	<i>Sinapis alba</i>

Controlled by 1.8l/ha, up to two expanded true leaves.

Corn Buttercup	<i>Ranunculus arvensis</i>	Treacle Mustard	<i>Erysimum cheiranthoides</i>
Shepherds Purse	<i>Capsella bursa-pastoris</i>	Wild Radish (Runch)	<i>Raphanus raphanistrum</i>

Controlled by 2.7l/ha, up to six expanded true leaves or up to 100mm across/high.

Volunteer Oilseed Rape *Brassica napus*

Moderately Susceptible

Controlled by 2.7-3.5l/ha, up to two expanded true leaves and checked at up to 100mm across/high.

Black Nightshade	<i>Solanum nigrum</i>	Field Forget me not	<i>Myosotis arvensis</i>
Common Fumitory	<i>Fumaria officinalis</i>	Field Gromwell	<i>Lithospermum arvense</i>
Common Hemp Nettle	<i>Galeopsis tetrahit</i>	Prickly Sow Thistle	<i>Sonchus arvensis</i>
Common Mouse Ear	<i>Cerastium holosteoides</i>	Scarlet Pimpernel	<i>Anagalis arvensis</i>
Common Orache	<i>Atriplex patula</i>	Small Nettle	<i>Urtica urens</i>
Common Poppy	<i>Papaver rhoeas</i>	Smooth Sow Thistle	<i>Sonchus oleraceus</i>
Creeping Thistle	<i>Cirsium arvense</i>	Wild Turnip	<i>Brassica rapa</i>

Moderately Resistant

Checked by 2.7-3.5l/ha, up to two expanded true leaves.

Black Bindweed	<i>Polygonum convolvulus</i>	Knotgrass	<i>Polygonum aviculare</i>
Common Chickweed	<i>Stellaria media</i>	Pale Persicaria	<i>Polygonum lapathifolium</i>
Corn Chamomile	<i>Anthemis arvensis</i>	Redshank	<i>Polygonum persicaria</i>
Corn Spurrey	<i>Spergula arvensis</i>	Scentless Mayweed	<i>Matricaria inodorum</i>
Field Pansy	<i>Viola arvensis</i>	Speedwells	<i>Veronica species</i>
Groundsel	<i>Senecio vulgaris</i>		

Grassland

HY-MCPA may be used on Established Grassland (permanent grassland), Young Grass Leys and Grass Seed Crops (rotational grass).

Water Volume

On grassland use a rate of 100 to 1000 litres of water per hectare. Use the higher rate in dense swards, or if weed growth is dense.

Spray Quality

Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2-3 bar is recommended.

Rate of Application and Timing

Established Grassland

HY-MCPA should be applied to established grassland at a rate of 2.7-3.5l/ha. Any clovers present in the sward will receive a check but should recover. A top dressing ten days before treatment is recommended to assist kill of weeds and subsequent recovery of the sward.

The time of application is best determined according to the growth stage of weeds present. A maximum of two applications per year are permitted.

Young Grass Leys

HY-MCPA should be applied to young grass leys at a rate of 1.4l/ha. At this rate HY-MCPA will control annual weeds listed under the section on cereals. Spray when the grasses have at least four leaves and have begun to tiller. Where several species of grass are present the timing should be dictated by the slowest developing species.

Grass Seed Crops

HY-MCPA should be applied to grass seed crops at a rate of up to 3.2l/ha.

Spray when the grasses have at least four leaves and have begun to tiller, but at least five weeks before heading.

Weeds Controlled in Grassland

HY-MCPA will control annual weeds as listed under the section on cereals.

When applied at 2.7-3.5l/ha HY-MCPA will also control the following perennial weeds as indicated opposite.

Those species marked * should be treated at the higher rate to achieve the level of control indicated.

Annual weeds will be best controlled if spraying is done while the majority of weeds are seedlings.

Perennial weeds should be sprayed during their period of maximum growth, usually when the flower buds are beginning to form. The response of perennial weeds to treatments are often variable with only the aerial parts killed, though often suppression will occur. The recovery of weeds will be reduced if the grass is growing vigorously at the time of treatment.

Weed Control - Grassland

Susceptible consistently good control of both roots and shoots

Greater Plantain *Plantago major*
 Ribwort Plantain *Plantago lanceolata*

Moderately Susceptible Weeds suppressed and top-growth

Autumn Hawkbit	<i>Leontodon autumnalis</i>	
Cat's Ear	<i>Hypochoeris radicata</i>	
Common Knapweed	<i>Centaurea nigra</i>	
Compact Rush	<i>Juncus conglomeratus</i>	Spray in April-June. Cut and remove stems either four weeks before or after treatment.
Creeping Buttercup*	<i>Ranunculus repens</i>	Treat in spring or early summer
Creeping Thistle	<i>Cirsium arvense</i>	Treat at early flower bud stage
Common Daisy	<i>Bellis perennis</i>	
Common Ragwort	<i>Senecio jacobaea</i>	Spray in spring when in rosette stage before flower spike starts to grow.
Hoary Cress	<i>Cardaria draba</i>	
Meadow Buttercup	<i>Ranunculus acris</i>	Treat in spring or early summer
Self Heal	<i>Prunella vulgaris</i>	
Soft Rush	<i>Juncus effusus</i>	Treat as Compact Rush
Spear Thistle	<i>Cirsium vulgare</i>	

Moderately Resistant Top growth only may be killed

Bulbous Buttercup	<i>Ranunculus bulbosus</i>	Treat in autumn on new leaf or in spring
Colt's Foot	<i>Tussilago farfara</i>	
Common Nettle*	<i>Urtica dioica</i>	
Common Sorrel	<i>Rumex acetosa</i>	
Curled Dock*	<i>Rumex crispus</i>	Treat pre-flowering or after defoliation
Dandelion	<i>Taraxacum officinale</i>	
Dwarf Thistle	<i>Cirsium acaule</i>	
Hard Rush	<i>Juncus inflexus</i>	Treat as Compact Rush
Horsetails*	<i>Equisetum arvense</i>	Shoots only controlled, apply in May-June
Meadowsweet	<i>Filipendula vulgaris</i>	
Perennial Sow Thistle*	<i>Sonchus arvensis</i>	
Sheep's Sorrel	<i>Rumex acetosella</i>	
Yarrow	<i>Achillea millefolium</i>	

Turf and Lawns

Areas of Use

HY-MCPA may be used on Managed Amenity Turf.

Water Volume

Use a volume of 200 to 1000 litres of water per hectare.
Use the higher rate in dense swards, or if weed growth is dense.

Spray Quality

Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2-3 bar is recommended.

Rate of Application and Timing

HY-MCPA should be applied to turf and lawns at a rate of 3.5l/ha.
Treatments should be made in the spring or summer when growing conditions are good.

An interval of 4 to 6 weeks should elapse between sprays if subsequent treatments are needed.

Restrictions

Do not mow 2 days before or 1 day after spraying.
Do not apply to grass suffering from stress as a result of frost or drought.
Do not use on new turf for 6 months after establishment.
The first 4 mowings must be composted for 6 months before use.

Recommended Tank Mixtures

Control of certain weeds in turf and lawns, not normally controlled by HY-MCPA alone such as clover and yarrow can be achieved by using a tank mixture of HY-MCPA plus Optica.
Also the control of other species such as chickweed and daisies will be improved by using this mixture.

HY-MCPA at 1.4-2.7l/ha may be mixed with Optica at 2.4l/ha in a volume of 560l/ha, provided the mixture is used immediately.

Applications will achieve best results if sprayed in summer, once the clovers are completely emerged.

Weeds Controlled in Turf and Lawns

HY-MCPA applied to turf at 3.5l/ha will control the following weeds as indicated.

Susceptible	One application will give complete control		
Creeping Buttercup	<i>Ranunculus repens</i>	Hoary Plantain	<i>Plantago media</i>
Fat Hen*	<i>Chenopodium album</i>	Mouse-ear	<i>Hieracium pilosella</i>
		Hawkweed	
Greater Plantain	<i>Plantago major</i>	Ribwort Plantain	<i>Plantago lanceolata</i>
Moderately Susceptible	May require a second treatment for complete control		
Autumn Hawkbit	<i>Leontodon autumnalis</i>	Dandelion	<i>Taraxacum officinale</i>
Bulbous Buttercup	<i>Ranunculus bulbosus</i>	Hairy Tare ***	<i>Vicia hirsuta</i>
Cat's Ear	<i>Hypochoeris radicata</i>	Heath Bedstraw	<i>Galium saxatile</i>
Common Mouse Ear	<i>Cerastium holosteoides</i>	Marsh Pennywort	<i>Hydrocotyle vulgaris</i>
Common Nettle	<i>Urtica dioica</i>	Sheep's Sorrel	<i>Rumex acetosella</i>
Common Ragwort	<i>Senecio jacobaea</i>	Shepherd's Purse**	<i>Capsella bursa-pastoris</i>
Common Sorrel	<i>Rumex acetosa</i>	Smooth Hawk's-beard	<i>Crepis capillaries</i>
Common Stork's-bill	<i>Erodium cicutarium</i>	Soft Rush	<i>Juncus effusus</i>
Creeping Thistle	<i>Cirsium arvense</i>	Spear Thistle	<i>Cirsium vulgare</i>
Curled Dock	<i>Rumex crispus</i>		

HY-MCPA at 1.4-2.7l/ha plus Optica at 2.4l/ha will control the following weeds, as indicated.

Susceptible	One application will give complete control		
Common Chickweed	<i>Stellaria media</i>	up to 100mm across/high	
Common Daisy	<i>Bellis perennis</i>	seedling and shoot kill only	
Shepherd's Purse	<i>Capsella bursa-pastoris</i>	up to 100mm across/high	
Moderately Susceptible	May require a second treatment for complete control		
White Clover	<i>Trifolium repens</i>	Parsley piert	<i>Aphenes arvensis</i>
Common Mouse ear	<i>Cerastium holosteoides</i>	Procumbent	<i>Sagina procumbens</i>
Black Medick	<i>Medicago lupulina</i>	Pearlwort	
Field Madder	<i>Sherardia arvensis</i>	Selfheal	<i>Prunella vulgaris</i>
		Yarrow	<i>Achillea millefolium</i>

*Susceptible at the young plant stage only (up to 6 leaves/early flower bud).

**Moderately susceptible at the young plant stage only (up to 6 leaves/early flower bud)

***Moderately susceptible at the seedling stage only (cotyledon to 3 leaves).

Linseed

HY-MCPA may be used on all commercially grown varieties of linseed.

Water Volume

Use a volume of 200 to 400 litres of water per hectare.

Spray Quality

Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2-3 bar is recommended.

Rate of Application and Timing

HY-MCPA should be applied to linseed at a rate of 1.8l/ha.

Applications should be made as soon as possible after the crop is 5cm in height but before it reaches 15cm high.

Temporary wilting may occur but no long term effects will be noticed. However, do not apply when the linseed is under stress from high temperatures or drought.

Restrictions

Do not apply to crops suffering from stress as a result of frost or drought.

Do not apply during drought, rain or if rain is expected.

Weeds Controlled in Linseed

HY-MCPA applied to linseed at 1.8l/ha will control the following weeds, as indicated.

Susceptible Controlled up to 6 expanded true leaves or 100mm across/high.

Black Mustard	Brassica nigra	Field Penny-cress	Thlaspi arvense
Charlock	Sinapis arvensis	Treacle Mustard	Erysimum cheiranthoides
Fat Hen	Chenopodium album	White Mustard	Sinapis alba

Susceptible Controlled up to 2 expanded true leaves

Corn Buttercup	Ranunculus arvensis	Small Nettle	Urtica urens
Shepherds Purse	Capsella bursa-pastoris		
Wild Radish	Raphanus raphanistrum		

Moderately Susceptible Checked up to 2 expanded true leaves

Common Hemp	Galeopsis tetrahit	Prickly Sow Thistle	Sonchus arvensis
Nettle			
Common Fumitory	Fumaria officinalis	Smooth Sow Thistle	Sonchus oleraceus
Common Orache	Atriplex patula	Wild Turnip	Brassica rapa
Common Poppy	Papaver rhoeas	Volunteer Oilseed Rape	Brassica napus

Verges and Industrial Sites.

HY-MCPA may be used on roadside verges, industrial land and land not intended for cropping.

Water Volume

Use a volume of 200 to 1000 litres of water per hectare.

Use the higher rate in dense swards, or if weed growth is dense.

Spray Quality

Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2-3 bar is recommended.

Rate of Application and Timing

HY-MCPA should be applied to verges and industrial sites at a rate of 6.0l/ha. Treatments should be made in the spring or summer when growing conditions are good.

An interval of 4 to 6 weeks should elapse between sprays if subsequent treatments are needed.

Restrictions

Do not mow 2 days before or 1 day after spraying.
Do not apply to grass suffering from stress as a result of frost or drought.
Do not use on new turf for 6 months after establishment.
The first 4 mowings must be composted for 6 months before use.

Weeds Controlled in Verges and Industrial Sites

HY-MCPA applied at 6.0l/ha will control the following problem weeds in verges and industrial land, as indicated.

Susceptible One application will give complete control

Fat Hen* Chenopodium album

*Susceptible up to 6 leaf or 100mm across/high only

Moderately Susceptible May require a second treatment for complete control

Creeping Thistle	Cirsium arvense	Common Nettle	Urtica dioica
Spear Thistle	Cirsium vulgare	Hoary Cress	Cardaria draba
Common Ragwort	Senecio jacobaea	Dandelion**	Taraxacum officinale
Autumn Hawkbit	Leontodon autumnalis	Soft Rush	Juncus effusus

** Large established dandelion plants will be moderately resistant.

Moderately Resistant Two or more applications may be needed for complete control

Curled Dock Rumex crispus

Terms and Conditions of Use.

The goods supplied by Agrichem (International) Ltd are suitable for the purposes expressly set out in this label when stored, handled, mixed, applied and used in accordance with the instructions on this label. Agrichem (International) Ltd gives no warranty, statutory or otherwise as to the quality or fitness for purpose of the goods other than that expressly set out above. Agrichem (International) Ltd accepts no liability for any injury, loss of life (except where caused by its negligence), damage or direct or indirect or consequential loss (all three of which terms include, without limitation, pure economic loss, loss of profits, loss of business, depletion of goodwill and like loss) howsoever caused arising out of or in connection with the storage, handling, mixing, application or use of goods otherwise than in accordance with these directions. A copy of Agrichem's full set of Terms and Conditions are available on request from Agrichem (International) Ltd.