

Isomec

A soluble concentrate containing 600 g/l (48% w/w) optically active isomer mecoprop-P, formulated as potassium salt.

A herbicide for the control of a wide range of broad leaved weeds in winter and spring cereals, grass seed crops, amenity grassland and managed amenity turf.

PRODUCT BENEFITS

- Controls many important weeds in cereals including Cleavers and Chickweed in a range of cereal crops.
- Works in cooler conditions.
- Flexible tank mix product.
- Control of Volunteer oilseed rape.
- Amenity grassland and managed amenity turf recommendation.

LERAP category: Unclassified

Pack size: 10 litres

Storage: PROTECT FROM FROST

This label is compliant with the CPA Voluntary Initiative Guidance.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE.

Crop	Maximum individual dose	Maximum number of treatments	Latest time of application
Winter wheat, winter barley, winter oats	2.3 l/ha	One per crop	Before third node detectable
Spring wheat, spring barley, spring oats			Before first node detectable
Amenity grassland	2.4 l/ha	Two per year	–
Grass (seed crops)	2.5 l/ha	One per year	Five weeks before emergence of seed head
Managed amenity turf	2.4 l/ha	Two per year	–

Other specific restrictions:

- Treated grass seed crops must not be grazed or cut for fodder.
- Applications to cereals must not be made between 1 October and 1 March.
- The total amount of mecoprop-P applied to an individual crop, or in a single year in the case of a perennial crop, must not exceed the maximum total dose of mecoprop-P approved for application to that crop by any single mecoprop-P containing product.

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.

MAPP 14385

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

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.

ISOMEC is a hormone herbicide which is absorbed by both shoots and roots and rapidly translocated within herbaceous plants.

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered to be resistant to a herbicide if it survives a correctly-applied treatment at the recommended dose. 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 advisor or product manufacturer.

RESTRICTIONS

Spring cereals and grass seed crops may only be treated once per crop.

DO NOT apply ISOMEC to any crop suffering from herbicide damage or physical stress.

DO NOT apply ISOMEC during cold weather, periods of drought, if rain or frost are expected, nor if the crop is wet.

If sharp or severe frosts occur within three to four weeks of application to barley under stress or of low vigour on light soils, scorch or stunting may occur and yields may be less than optimum.

The crop should not be rolled or harrowed within a period of seven days before or after spraying with ISOMEC.

Avoid drift onto all broad-leaved plants outside the target area.

WASH EQUIPMENT thoroughly immediately after use. Rinse with water three times, drain and allow to dry. Traces of herbicide left in the sprayer may damage susceptible crops if these are subsequently sprayed using the same equipment.

WEEDS CONTROLLED

The best weed control will be achieved if crops are sprayed in conditions when weeds are actively growing, provided the crop is within the correct growth stages.

Identify the weeds present and select the appropriate rate as listed below. Optimum conditions prevail when ALL the following are true:

1. Soils are warm and moist.
2. Weeds have not been frost-hardened.
3. Warm, moist conditions are expected to persist for several days after application.

This is particularly important when ISOMEC is used in the spring to control large autumn germinated cleavers, which may have become 'winter hardened'.

Provided weeds are cotyledon to two leaves and application conditions meet the requirements listed above, susceptible species will be controlled at the rates recommended below.

If weeds are three to six leaves or conditions are less than optimum, using a higher rate will still control susceptible species. For optimum suppression of perennial weeds and species classed as moderately susceptible, apply ISOMEC at 2.3 l/ha.

Weeds	Application rate		
	1.5 l/ha	2.0 l/ha	2.3 l/ha
Chickweed, common*	S		
Fat hen	S		
Pennycress, field	S		
Buttercup, corn	-	MS	
Charlock	-	S	
Cleavers	-	S	
Mouse-ear, common	-	S	
Mustard, black	-	S	
Mustard, treacle	-	S	
Mustard, white	-	S	
Nettle, small	-	S	
Plantain, greater	-	S	
Plantain, ribwort	-	S	
Radish, wild	-	S	
Shepherd's purse	-	S	
Bindweed, black	-	-	MR
Buttercup, creeping	-	-	SP
Campion, white	-	-	SP
Cranesbill, cut-leaved	-	-	MR
Cranesbill, dove's-foot	-	-	MS
Deadnettle, red	-	-	MS
Docks	-	-	SP
Forget-me-not, field	-	-	R
Fumitory, common	-	-	MS
Groundsel	-	-	MR
Hempnettle, common	-	-	MR
Knotgrass	-	-	MR
Marigold, corn	-	-	R
Mayweed, scented	-	-	R
Mayweed, scentless	-	-	MR
Nightshade, black	-	-	MR
Oilseed rape, volunteer	-	-	S
Orache	-	-	MS
Pansy, field	-	-	R
Persicaria, pale	-	-	MR
Pimpernel, scarlet	-	-	MR
Poppy, common	-	-	MR
Redshank	-	-	MR

Weeds <i>Continued...</i>	1.5 l/ha	Application rate 2.0 l/ha	2.3 l/ha
Sowthistle, perennial	–	–	SP
Sowthistle, prickly	–	–	MS
Sowthistle, smooth	–	–	MR
Speedwell, sommon field	–	–	MS
Speedwell, ivy-leaved	–	–	MS
Thistle, creeping	–	–	SP
Turnip, wild	–	–	MS
Viper's bugloss	–	–	MR

* Common chickweed will be controlled up to 15 cm diameter by ISOMEC at 2.3 l/ha.

S = Susceptible: controlled from cotyledon to two true leaf stage at 1.5 l/ha and 2.0 l/ha; controlled from cotyledon to six true leaf stage (or 5 cm across or high) by 2.3 l/ha.

MS = Moderately susceptible: controlled from cotyledon up to two true leaves but only checked up to six true leaves or 5 cm across or high.

MR = Moderately resistant: checked at cotyledon to two true leaves only.

SP = Top growth suppressed when sprayed with 2.3 l/ha ISOMEC if appreciable foliage is present. Seedlings (cotyledon – two true leaves) will also be controlled.

R = Resistant: no useful effect.

CROP SPECIFIC INFORMATION

Winter wheat, oats and barley

Dose rate

2.3 l/ha.

Timing

ISOMEC may be applied from the leaf sheath erect stage up to before third node detectable stage in the spring.

If sharp or severe frosts occur within three to four weeks of application to barley under stress or of low vigour on light soils, scorch or stunting may occur and yields may be less than optimum.

Spring wheat, oats and barley

Dose rate

1.5 to 2.3 l/ha dependant on the target weed species. The 2.3 l/ha rate may only be used once the crop has reached leaf sheath erect stage.

Timing

One application of ISOMEC can be made from the first fully expanded leaf stage until before the first node is detectable (GS31).

Amenity grassland

Dose rate

2.4 l/ha.

Timing

The sward should not be topped for at least a week before or after spraying. A maximum of two applications per year are permitted.

Docks

Allow to flower in July and then cut the flower stalks *before* seeding to weaken root reserves. Wait two weeks and then apply the recommended rate of ISOMEC. Docks will be severely checked but may recover, in which case the treatment should be repeated in the following season.

Common chickweed

Treat when actively growing and not shielded by grass, usually late summer or autumn.

If appreciable foliage is present there will be top growth suppression of weeds listed as Top growth suppressed in the weed susceptibility table.

When using a conventional sprayer apply in 185–330 litres of water per hectare. When applying through a knapsack sprayer use a minimum of 480 litres of water per hectare.

Grass seed crops

Dose rate

1.5 to 2.5 l/ha.

Timing

One application can be made once grasses have at least three fully expanded leaves and have begun to tiller, but at least five weeks before the emergence of the seed head in grass seed crops. Treat common chickweed when growing actively and not shielded by grass, usually late summer or autumn. Any clover present will be severely damaged.

Water volume

Apply in 185–330 litres of water per hectare.

Managed amenity turf

Dose rate

When using a conventional hydraulic sprayer apply 1.5 to 2.4 litres ISOMEC in 185–400 litres of water per hectare. Use the higher volume on larger weeds or where weeds or crop are dense. When applying through a knapsack sprayer use a minimum of 480 litres of water per hectare.

Timing

Two applications of ISOMEC can be made to managed amenity turf. For spring and summer sown turf, apply approximately two months after sowing. Turf sown or laid later in the year should not be treated until the following spring. For established turf, apply ISOMEC during the growing season which is normally April to September.

CAUTION: Do not apply to newly laid turf until it is well established and actively growing. Do not apply to turf under stress, particularly in periods of drought.

MIXING AND SPRAYING

Apply as a MEDIUM spray as defined by BCPC.

Water volume

The spray volume for ISOMEC alone or in mixtures is 185–330 litres of water per hectare. The lowest volume should only be used in open crops where weeds are small and where recommendations for any tank mix partner allow. As weeds become larger and/or crop cover increases, then the water volume should be increased.

This is particularly important with cleavers. Once cleavers are beyond the two whorl stage up to six whorls, a water volume of 330 litres per hectare is required to ensure good coverage and control.

Mixing

Half fill the spray tank with clean water and start the agitation. Pour in the required amount of ISOMEC. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be used, each product should be added separately to the spray tank, taking due note of any instructions given as to the order of mixing.

COMPATIBILITY

Compatible mixtures

Provided all product recommendations are followed, COMPITOX PLUS is fully compatible with the following chemicals:

Capture	Pike	New 5C Quintacel
Corbel ¹	Mextrol Biox ²	Stomp
Opus Team		

Approved formulations of cypermethrin (MAPP 13158)

Approved formulations of fluroxypyr-meptyl (MAPP 12018, 13432, 13460)

Approved formulation of tribenuron-methyl (MAPP 06270, 10843, 12239, 14240)

¹When using tank mixes with Corbel add to the spray tank *after* the other products.

²When using this tank mixtures add to tank first, then mix in the ISOMEc.

All tank mixes should be used immediately after mixing.

Mixtures known to be incompatible

ISOMEc + diclofop-methyl + fenoxaprop-p-ethyl (MAFF 08946, 08947)

ISOMEc + fenoxaprop-p-ethyl

Please contact your Nufarm distributor for a full list of compatible mixtures. This list has been prepared in the light of information available at the time of publication. Other mixtures not referred to here may also prove to be incompatible and it is therefore advisable not to use mixtures other than those listed as compatible in this label.

COMPITOX PLUS

A soluble concentrate containing 600 g/l (48% w/w) mecoprop-P formulated as the potassium salt



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

HARMFUL IF SWALLOWED.
IRRITATING TO SKIN.
RISK OF SERIOUS DAMAGE TO EYES.
TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE ENVIRONMENT.

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

WEAR EYE/FACE PROTECTION.
 THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.
 USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

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

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

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

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

Environmental protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains farmyards and roads.

Storage and disposal

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

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 RINSING THREE TIMES. Add washings to sprayer at time of filling and dispose of safely.

Acknowledgements

Pike, Mextrol and Quintacel are registered trademarks of Nufarm.

Opus and Stomp are BASF trademarks.

Capture is the registered trademarks of Bayer Cropscience.

Corbel is a registered trademark of Maag, Dielsdorf, Switzerland.