



Cleravo®



MAPP 16877

A suspension concentrate containing 35 g/l imazamox and 250 g/l quinmerac for use as a contact & residual herbicide for the control of a range of broad-leaved and grass weeds in any Clearfield® oilseed rape hybrid carrying the Clearfield® brand.

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

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.

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

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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.

Storage and disposal

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

STORE IN ORIGINAL CONTAINER tightly closed, in a safe place.

On emptying the container, 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 container safely.

This label is compliant with the CPA Voluntary Initiative Guidance

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Supplied by: BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport SK1 3GG, Telephone: 0161 475 3000

Emergency Information (24 hours freephone): 0049 180 227 3112
Technical Enquiries: 0845 602 2553 (office hours)

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Cleravo®

A suspension concentrate containing 35 g/l imazamox and 250 g/l quinmerac

Warning

May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

If medical advice is needed, have product container or label at hand.

Avoid breathing mist/spray.

Wear protective gloves/clothing/eye protection.

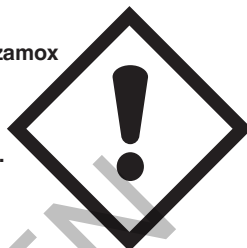
IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: 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.

Contains 2-methyl-2H-isothiazol-3-one and 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

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



IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERICIDE, as directed below:

| Crops | Maximum individual dose | Maximum number of treatments | Latest time of application |
|---------------------|-----------------------------|------------------------------|---------------------------------|
| Winter oilseed rape | 1 litre product per hectare | 1 per crop | Before 9 true leaf stage (GS19) |
| Spring oilseed rape | 1 litre product per hectare | 1 per crop | Before 9 true leaf stage (GS19) |

Other specific restrictions:

To avoid the build up of resistance do not apply this or any other product containing an ALS inhibitor herbicide with claims for control of grass-weeds more than once to any crop.

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.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under Regulation (EC) No 1107/2009 and provides additional advice on product use.

CLERAVO MUST ONLY BE USED ON CLEARFIELD® OILSEED RAPE HYBRIDS.

Stewardship of the Clearfield® Production System:

For the latest information and guidance on best practice and stewardship of the Clearfield® Production System contact either your local BASF Agronomy Manager or the BASF Technical Services Hotline: 0845 602 2553.

Water protection:

This product contains **quinmerac** and is therefore included in the "**OSR Herbicides? Think Water**" stewardship campaign.

BASF have developed the **wHen2gO** smart tool for water stewardship.

To download **wHen2gO** please see www.agricentre.basf.co.uk.

Following the guidance of **wHen2gO** will help to reduce the risk to water.

Alternatively, the following closed periods for application apply:

- Avoid use of quinmerac after 30th September and do not use after 15th October.
- In high risk areas (drained fields in Safeguard Zones) do not use quinmerac after 30th September.

For further information, see www.agricentre.basf.co.uk and

www.osrherbicides.org.uk or telephone BASF on 0845 602 2553.



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.

CLERAVO is a contact and residual herbicide that can be used for the control of a range of broad leaved and grass weeds in any Clearfield® oilseed rape hybrid carrying the Clearfield® brand.

Restrictions/Warnings

CLERAVO MUST ONLY BE USED ON CLEARFIELD® OILSEED RAPE HYBRIDS.

COMPLETE CROP LOSS WILL OCCUR IF CLERAVO IS APPLIED TO OILSEED RAPE THAT DOES NOT CARRY THE CLEARFIELD® BRAND.

As with other oilseed rape hybrids, seed from CLEARFIELD® oilseed rape should not be farm-saved.

Do not apply CLERAVO to crops suffering from stress, which may be caused, for example, by pests, disease, waterlogging, poor seedbed conditions or previous chemical treatment.

Do not apply when heavy rain is forecast.

Under frosty conditions a transient scorch may occur.

Weeds germinating from depth may not be controlled.

Soil moisture is required for effective weed control via root uptake. Residual control may be reduced under prolonged dry conditions.

Care should be taken to avoid overlap of spray swaths.

Do not disturb the soil after application.

CLERAVO is suitable for use on all soil types as defined by the Soil Texture (85) System, except sands, very light soils and soils containing more than 10% organic matter.

Do not apply to stony soils; i.e. stones, flints or chalk readily visible on surface. On brashy or stony soils, Cleravo may cause some reduction in crop vigour and/or plant stand.

Do not apply to cloddy seedbeds. Seedbeds must have a fine, firm tilth for optimum weed control. Loose or cloddy seedbeds must be consolidated prior to application.

Do not apply to waterlogged soils or soils prone to waterlogging.

Extreme care is required to avoid spray drift on to neighbouring crops and non-target plants outside the target area, especially when spraying next to crop species that are more sensitive to CLERAVO e.g. potato, carrot, parsley, parsnip and herbs.

Weed control

CLERAVO is taken up via cotyledons, roots and shoots and takes maximum effect before, or shortly after, weed emergence.

Weeds germinating from depth may not be controlled. Soil moisture is required for effective weed control via root uptake. Residual control may be reduced under prolonged dry conditions.

Susceptibility of weeds to single applications of CLERAVO.

Best results will be achieved by application to small actively growing weeds.

* The addition of 1.0 l/ha Dash HC will improve the level and consistency of control.

| Weed Common name | CLERAVO | | |
|----------------------------|----------|---------------------|------------------------|
| | 1.0 l/ha | + 1.0 l/ha Dash HC* | Max weed GS |
| Black-grass | R | R | - |
| Annual mercury | MR | MS | 4 lvs |
| Black-bindweed | - | MS | 2 lvs |
| Charlock | S | S | 6 lvs |
| Chickweed, common | S | S | 1st side shoot visible |
| Cleavers | S | S | 1st side shoot visible |
| Crane's-bill, cut-leaved | S | S | 4 lvs |
| Crane's-bill, round-leaved | MS | S | 4 lvs |

| Weed | CLERAVO | | |
|---------------------------------------|----------|---------------------|------------------------|
| | 1.0 l/ha | + 1.0 l/ha Dash HC* | Max weed GS |
| Crane's-bill, small-flowered | R | MS | 4 lvs |
| Dead-nettle, henbit | S | S | 1st side shoot visible |
| Dead-nettle, red | S | S | 2 lvs |
| Fat hen | MS | S | 9 lvs |
| Flixweed | S | S | 4 lvs |
| Groundsel | MR | S | 4 lvs |
| Mayweed, scented | MS | S | 4 lvs |
| Mayweed, scentless | MS | S | 4 lvs |
| Mustard, hedge | S | S | 6 lvs |
| Mustard, white | - | S | before stem extension |
| Pansy, field | R | MR | 8 lvs |
| Penny-cress, field | S | S | 9 lvs |
| Pineappleweed | S | S | 4 lvs |
| Poppy, common | MS | S | 2 lvs |
| Redshank | - | S | 6 lvs |
| Runch (Wild radish, Jointed charlock) | S | S | 6 lvs |
| Shepherd's purse | MS | S | 8 lvs |
| Sow-thistle, perennial | R | MS | 3 lvs |
| Sow-thistle, prickly | S | S | 3 lvs |
| Speedwell, common field | MS | S | 4 lvs |
| Speedwell, ivy-leaved | S | S | 4 lvs |
| Speedwell, wall | S | S | 4 lvs |
| Volunteer oilseed rape | S | S | 4 lvs |
| Volunteer barley | R | S | 2 tillers |
| Volunteer wheat | R | S | 1 tiller |

MR = Moderately Resistant
 R = Resistant
 S = Susceptible
 - = no data
 MS = Moderately Susceptible

Weed resistance management

This product contains imazamox which is an ALS inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group B'. Only use as part of a weed resistance management strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of grass-weed control.

Strains of some annual grasses (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 such resistance should be adopted. 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.

Populations of Black-grass, Italian ryegrass, Chickweed and Poppy with high levels of resistance may not be fully controlled.

Key elements of the weed resistance management strategy for CLERAVO:-

- Always follow WRAG guidelines for preventing and managing herbicide resistant weeds.
- Maximise the use of cultural control measures wherever possible (e.g. crop rotation, ploughing, stale seedbeds, etc).
- Adopt as diverse a rotation as possible using autumn and spring sown crops.
- Consider rotational ploughing every 3 to 5 years to improve black-grass control.
- Where the Clearfield® crop is to be established by non-inversion tillage it is important to obtain high levels of black-grass control in the previous crop.
- Do not rely on one herbicide mode of action for the control of grass or broad-leaved weeds in the same field over several years.
- For the control of Black-grass, Ryegrass and Wild oats, always use CLERAVO in tank mix or sequence with other effective graminicides with different modes of action.
- Apply post-emergence products/mixtures to small, actively growing weeds to maximise the level of control.
- Where there is significant risk of the development of ALS resistant grass weeds, consider the inclusion of a spring crop(s) in the rotation, to increase the opportunity for cultural control measures.
- Monitor fields regularly and investigate the reasons for any poor control.

Crop Specific Information

CLERAVO can be used on any spring or winter Clearfield® oilseed rape hybrid carrying the Clearfield® brand.

For a list of current Clearfield® oilseed rape hybrids contact either your local BASF Agronomy Manager or the BASF Technical Services Hotline: 0845 602 2553

COMPLETE CROP LOSS WILL OCCUR IF CLERAVO IS APPLIED TO OILSEED RAPE THAT DOES NOT CARRY THE CLEARFIELD® BRAND.

To ensure that CLERAVO, is only be applied to Clearfield® oilseed rape hybrids, it is important to clearly and accurately record the location of Clearfield® oilseed crops on the farm and provide relevant information to those staff and contractors applying CLERAVO.

Time of application

Clearfield® varieties of Winter Oilseed Rape;
CLERAVO may be applied post emergence of the crop from two fully expanded cotyledons (GS 10) and up to and including the eight true leaf growth stage (GS 18).

Clearfield® varieties of Spring Oilseed Rape;
CLERAVO may be applied post emergence of the crop from two fully expanded cotyledons (GS 10) and up to and including the eight true leaf growth stage (GS 18).

Rate of application

Apply CLERAVO at 1.0 litre per hectare.

Improved control of certain weed species can be achieved by applying 1.0 l/ha CLERAVO plus 1.0 l/ha of the adjuvant Dash HC.

Following Crops

Following crops after normally harvested Clearfield® oilseed rape

Crops such as wheat, barley, oats, oilseed rape, field beans, peas, maize and sunflower can follow normally harvested Clearfield® oilseed rape treated with CLERAVO in either the autumn or spring.

Sugar beet should only follow normally harvested Clearfield® oilseed rape when the CLERAVO is applied in the autumn.

Re-drilling due to crop failure

In the event of crop failure, the following crops may be re-drilled following ploughing or cultivation to at least 20 cm.

| Following crop | Recommended interval prior to re-drilling |
|--|---|
| Clearfield® oilseed rape, Maize, Peas | 4 weeks after application |
| Wheat, Barley, Oats | 8 weeks after application |
| Field beans | 10 weeks after application |
| Sunflower # Conventional (non-Clearfield®) Spring oilseed rape hybrids | 15 weeks after application |

It is advised that in the event of crop failure, re-drilling of winter or spring oilseed rape (i.e. non-Clearfield® oilseed rape) or sugar beet should be avoided due to a risk of crop injury.

Mixing and Application

Mixing

Never prepare more spray solution than is required.

Fill the spray tank three quarters full with water and start the agitation.

To ensure thorough mixing of the product, invert the container several times before opening.

Add the required quantity of CLERAVO to the spray tank while re-circulating.

If required add Dash HC and then the remainder of the water.

Continue agitation until spraying is completed.

On emptying the product container, 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 container safely.

Application

Apply CLERAVO in 100–400 l/ha water volume as a MEDIUM spray as defined by BCPC. In more dense crops where weed shading is more likely use the higher water volume.

To ensure optimum spray coverage and minimize spray drift, adjust the spray boom to the appropriate height above the crop, according to guidance provided by the sprayer and/or nozzle manufacture.

Tank cleaning

Wash sprayer thoroughly immediately after use, using clean water and following the sprayer cleaning guidance provided by the equipment manufacturer.

Use of a proprietary spray tank cleaner is recommended.

Controlling volunteers from Clearfield® oilseed rape

Best management practice is to control volunteer oilseed rape plants in the immediate following crop or prior to its establishment.

Volunteers from Clearfield® oilseed rape can be controlled with established techniques using a combination of stale-seedbeds, non-selective herbicides, selective herbicides and cultivation methods:-

- Following a Clearfield® oilseed rape crop, post-harvest rainfall will encourage volunteer oilseed rape to germinate, therefore where possible delay any post-harvest cultivations or stubble-hygiene herbicide treatments until this has occurred.
- Use a stale-seedbed technique to destroy germinated oilseed rape seedlings using an approved non-selective herbicide treatment, for example glyphosate, and/or cultivation.
- Should further germination of volunteer oilseed rape occur, consider repeating the above stale-seedbed process prior to establishment of the next crop.
- Should volunteer oilseed rape emerge post-harvest elsewhere within the rotation consider stale-seedbed techniques between subsequent crops.
- Where it is planned for Clearfield® oilseed rape stubble to be used as extended over-wintered stubbles/natural regeneration, volunteer Clearfield® oilseed rape must be destroyed in time to prevent viable seeds, paying attention to agronomic guidance and/or management restrictions that may apply to the stubble maintenance.

The control of volunteers from Clearfield® oilseed rape can be achieved within the rotation by the use of selective-herbicides, with a label claim for volunteer oilseed rape, that are not from HRAC Group B (ALS-inhibitors).

The herbicides listed below are not from the HRAC Group B (ALS-inhibitors) and have been proven to control volunteers from Clearfield® oilseed rape in succeeding winter cereals.

| Selective herbicides with a label claim for the control of volunteer oilseed rape and proven to control volunteer Clearfield® oilseed rape | | |
|---|---|--|
| Active ingredient/s | Examples of products | |
| picolinafen + pendimethalin◇ | Picona PicoPro PicoStomp PicoMax | MAPP 13428 MAPP 13454 MAPP 13455 MAPP 13456 |
| 2,4-D | Dioweed 50* | MAPP 13197 |
| mecoprop-P | Duplosan KV* | MAPP 13971 |
| diffufenican + flurtamone | Bacara | MAPP 16448 |

* = Spring use only

◇ = Deep germinating volunteer oilseed rape may not be controlled.

Trade Mark Acknowledgments

Dash is a registered trademark of BASF.

Dioweed 50 is a registered trademark of United Phosphorous Ltd.

Duplosan is a registered trademark of Nurfarm UK Ltd.

Bacara is a registered trademark of Bayer CropScience Ltd.

The following does not form part of the authorised label text.

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as to

the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.

Section 6 of the Health and Safety at Work Act

Additional Product Safety Information

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted under the Plant Protection Product Regulations (EC) No 1107/2009.

The information on this label is based on the best available information including data from test results.

Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



agricentre.basf.co.uk/Cleravo/MSDS

Alternatively, contact your supplier.



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