

CRAWLER®

GROUP 23 HERBICIDE

MAPP 16856

A residual herbicide for the control of certain grass weeds and broad-leaved weeds in winter oilseed rape and winter field beans.

A water dispersible granule formulation containing 600 g/kg carbetamide.

For advice on medical emergencies, fires or major spills telephone the National Chemical Emergency Centre on 01865 407333

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

Batch No.: see packaging

Marketed by
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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, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when handling the product.

* disposable filtering facepiece respirator to at least EN146 FFP2 or equivalent.

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.

IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS before meals 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. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Storage and Disposal

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

PROTECT FROM FROST



Scan for Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink: <https://bit.ly/2w0oAdn> - Alternatively, contact your supplier.

10 kg e



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IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE

Crop	Maximum individual dose (kg product/ha)	Maximum number of treatments (per crop)	Latest time of application
Winter oilseed rape	3.0	1	Before beginning of stem elongation: no internodes (rosette)
	or 1.5	or 2	
Winter field beans	3.0	1	Before formation of side shoots

Other specific restrictions:

The product must be applied before the end of February in the year of harvest. A minimum interval of 7 days must be observed between split dose applications on oilseed rape.

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.



Danger

Causes serious eye irritation.

Suspected of causing cancer.

May damage the unborn child.

Toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Collect spillage.

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.

B2491A_15



UN 3077

ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID, N.O.S.
(Carbetamide)

FR R3.4.2 FEB21

CRAWLER®



This text is part of the approved label.

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.

CRAWLER® is a water dispersible granule formulation containing carbetamide for use as a residual herbicide in all varieties of winter oilseed rape and winter field beans.

CRAWLER is primarily active against annual grasses including cereal volunteers, blackgrass, meadowgrasses and wild oat. It will also give a measure of control of some broad-leaved weeds.

CRAWLER is slow acting.

RESTRICTIONS OR WARNINGS

Conditions resulting in crop stress e.g. high rainfall shortly after application, previous pesticide applications, water logged soils, first frosts before crop is waxed up, sudden and extreme cold conditions following a warm period shortly before application could lead to crop damage.

DO NOT apply when weeds are fully dormant i.e. during or immediately after prolonged periods of cold weather. Application may be made during a short frosty spell.

In seasons of abnormally high rainfall when soils remain saturated for long periods the persistence and activity of CRAWLER may be affected.

CRAWLER must not be applied to waterlogged soils.

Avoid overlapping spray swaths as reductions in yield may occur.

Extreme care should be taken to avoid damage by drift onto plants outside the target area.

Crops should not be re-entered until spray residues are dry.

RESISTANCE

Strains of some annual grasses (e.g. blackgrass, 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 (WRAG) and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

CRAWLER contains carbetamide, a Group 23 herbicide based on the mode of action classification system of the Herbicide Resistance Action Committee.

Repeated use of herbicides with the same mode of action can increase the risk of strains of weeds developing resistance to these compounds, leading to poor control. In order to minimise the risk, a strategy for preventing and managing such resistance should be adopted.

Growers are advised to apply products containing herbicides with different modes of action in sequence or tank-mix where two or more components are active against the target weeds. Use the recommended rate of CRAWLER and the correct application timing. The above should be used in conjunction with effective cropping rotation and cultivation techniques e.g. stale seedbed, cultivation and use of non-selective herbicide prior to drilling.

Further guidance on weed resistance management is available from the Herbicide Resistance Action Committee (HRAC) and Weed Resistance Action Group (WRAG). Follow WRAG Guidelines.

WEED CONTROL

CRAWLER acts primarily by root up-take, hence MOIST SOIL is optimal for herbicide activity, avoid applying to dry soils as reduced effectiveness may result.

To ensure weed control is not impaired ensure the final seedbed is firm and does not contain clods greater than fist size, before applying CRAWLER.

It may be used on all soil types except soils containing more than 10% organic matter.

Susceptible

Chickweed (up to 4 leaves)
Speedwell (up to 4 leaves)

Moderately susceptible

Blackgrass
Ryegrass (from seedlings)
Meadowgrasses (*poa* spp)
Volunteer cereals (most susceptible from 3 leaf stage)
Wild oat (most susceptible from 3 leaf stage)

Resistant

Field forget-me-not
Groundsel
Mayweeds
Parsley-piert
Red dead-nettle
Perennial broad-leaved weeds

CROP SPECIFIC INFORMATION

CRAWLER may be applied to all varieties of winter oilseed rape and winter field beans.

TIMING

Winter oilseed rape

CRAWLER may be applied pre- or post-crop emergence until the end of February. Do not treat when growing away in the spring.

Winter beans

CRAWLER may be applied pre or post crop emergence until the end of February.

RATE OF USE

Winter oilseed rape

Apply as a single application of 3.0 kg/ha from pre-emergence of the crop until the end of February or as a split application. For the split application, 1.5 kg/ha should be applied pre-emergence of the crop with the second application of 1.5 kg/ha applied from crop emerging (BBCH 09) until 3 leaf stage of the crop (BBCH 13). It is suggested to use the split dose regime if soil conditions are not optimum at the pre-emergence timing, alternatively wait until there is some soil moisture and apply at the full rate.

Winter beans

Apply as a single application of 3.0 kg/ha.

WATER VOLUME AND SPRAY QUALITY

Apply in 200 litres water/ha as a MEDIUM to COARSE spray as defined by BCPC.

FOLLOWING CROPS

It is not necessary to plough following the application of CRAWLER and sowing any subsequent crop.

CROP FAILURE

The following intervals should elapse between using CRAWLER and sowing subsequent crops.

Brassicas, field beans	- 2 weeks
Peas, runner beans	- 8 weeks
Cereals, maize	- 16 weeks

MIXING AND SPRAYING

Sprayers with induction bowls:

Half-fill the sprayer's tank and switch on the agitation and recirculation. Turn off the self-fill so that the remainder of the tank is not being filled until induction of the chemical is complete. Cut a small section from the corner of the bag to help meter the product flow. Set the induction hopper's water input and outflow valves so that the hopper bowl becomes, and remains, half full of water. When bubbling from the bottom of the induction bowl has ceased, add the first bag of product slowly into the induction bowl, sprinkling evenly over the entire surface of the water. Make sure that the water level remains higher than the hopper's drain to avoid air being introduced.

After adding the first bag, close the venturi and water input valve and check the sprayer tank.

Continue to follow this process until the required application rate is reached and then complete filling the sprayer tank.

Sprayers without induction hoppers:

Fill the sprayer with at least 15 cm of water and agitate vigorously. Pour the product very slowly through the sprayer lid, and add the remainder of water.

Cold water will slow down the dispersal of the granule in the spray tank. Agitate the mixture thoroughly before use - continue agitation during spraying.

Where 50 mesh or finer filters are fitted to the sprayer these should be removed before spraying.

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

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under Regulation (EC) 1107/2009 and provides additional advice on product use.

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

Particular care is needed when using in **Surface Water Drinking Water Safeguard Zones:-**

- Carbetamide is best applied early in the autumn as part of a blackgrass control program; avoid use if drains are flowing or are likely to flow in the near future.

For further information, see www.adama.com and www.voluntaryinitiative.org.uk or contact Adama on 01635 876622.



**OSR Herbicides?
Think Water**

DISCLAIMER/CONDITIONS OF SUPPLY

The specified properties of our products and the mode of application stated on this label have been established on the basis of research and experience. Products conform to specification at the time of delivery but, as we exercise no control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application, all of which may affect the performance of the products, no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in or make recommendations concerning the use of such products. We recommend you contact your dealer to request advice on the suitability of this product for any new and/or unusual growing methods or for new varieties not listed on this label.

Approval holder and Marketing company

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