

Chronicle®



MAPP 21392

A suspension concentrate containing 16 g/l picolinafen and 320 g/l pendimethalin. A herbicide with residual and contact activity for the control of meadow grasses and broad leaved weeds in winter and spring wheat and winter and spring barley, winter rye and winter triticale.

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 ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH HANDS before eating and after work.

IF YOU FEEL UNWELL seek medical advice (show the label if 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 from farmyards and roads.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies as specified for the crop.

HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY.

Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website.

Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing waterbody, or within 1m of the top of a ditch which is dry at the time of application.

Aim spray away from water.

NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form.

The LERAP record form must be kept available for three years.

Storage and disposal

DO NOT RE-USE CONTAINER for any other purpose.

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.

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

PROTECT FROM FROST

This label is compliant with the CPA Voluntary Initiative Guidance

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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® = Registered trademark of BASF

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The
Voluntary
Initiative

Chronicle®

A suspension concentrate containing 16 g/l picolinafen and 320 g/l pendimethalin.

Warning

May cause an allergic skin reaction.

Suspected of damaging the unborn child.

Very toxic to aquatic life with long lasting effects.

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

Wear protective gloves, protective clothing and eye protection or face protection.

Avoid breathing mist/vapours/spray.

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

Store locked up.

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.

May produce an allergic reaction. Contains: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3 : 1)

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



IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop	Application Timing	Maximum Individual Dose (litres product/ha)	Maximum Number of Treatments (per crop)	Latest Time of Application	Aquatic Buffer Zone Distance
Winter barley, winter wheat, winter rye, winter triticale.	Pre- and post-emergence	3.0	1	Up to and including crop growth stage 13 (3 true leaves)	12 meters
Spring barley, Spring wheat	Pre-emergence OR Post-emergence	3.0 OR 2.0	1	Pre-emergence of the crop OR Up to and including crop growth stage 13 (3 true leaves)	12 meters OR 12 meters

Other Specific Restrictions:

Do not apply via hand-held equipment.

Post emergence application to winter cereals is limited to application between 1 September and 30 November.

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.

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.

Chronicle is a herbicide with residual and contact activity for the control of meadow grasses and broad leaved weeds in winter and spring wheat and winter and spring barley, winter rye and winter triticale.

Restrictions/Warnings

Efficacy

For residual control some soil moisture is required for Chronicle. Best results will be obtained if rain falls within 7 days of application.

Residual control may be reduced:

- under prolonged dry conditions
- on soils with more than 6% organic matter
- on soils with a high Kd factor
- on soils where ash content is high

DO NOT disturb the soil after application.

Where cultural techniques which encourage the build up of organic residues in the surface soil are practised for a number of seasons, the effectiveness of residual herbicides may be reduced. In such circumstances periodic ploughing is recommended to disperse residues into a greater volume of soil.

Soil types

Chronicle may be used on all mineral soil types.

DO NOT use on soils with more than 10% organic matter.

DO NOT use on stony or gravelly soils as crop damage can occur, particularly if heavy rain follows treatment.

DO NOT use on water logged soil or soils prone to water logging.

Seedbed preparation

Trash and straw should be incorporated evenly during seedbed preparation.

Seedbeds must have a fine, firm tilth.

Loose or cloddy seedbeds must be consolidated prior to application, otherwise reduced weed control may occur. They may also cause seed to be inadequately covered which could result in crop damage.

Crop safety

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

Water logging that occurs soon after pre-emergence applications may lead to crop damage.

For pre-emergence applications, seed should be covered with a minimum of 3.2 cm of settled soil.

Shallow drilled crops should only be treated post-emergence

DO NOT soil incorporate.

Avoid spraying during periods of prolonged or severe frosts.

Some transient bleaching may be seen after application to some crops. This does not lead to yield loss.

DO NOT spray undersown cereals or those to be undersown.

DO NOT roll emerged crops prior to application.

DO NOT roll autumn treated crops until the spring.

Spray drift

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

Other restrictions/warnings

DO NOT use more than one application of Chronicle in one growing season.

Concentrated or diluted Chronicle may stain. Avoid spillage. Staining is minimised or completely removed if skin/clothes are washed immediately.

Weed control

Susceptibility of weeds to single applications of Chronicle

For post-emergence applications best results will be achieved by application to small actively growing weeds.

Product Rate (l/ha)	Chronicle		
	3	2	3
Application timing	Pre-em	Post-em	
Annual Meadow-grass	S	S up to 2 lvs	S up to 2 lvs
Rough Meadow-grass	MS	MS up to 2 lvs	MS up to 2 lvs
Loose silky bent	S	MR up to 1 leaf	S up to 1 leaf
Charlock	MS	S up to 6 lvs	S up to 6 lvs
Cleavers	MS	MS up to 1 whorl	S up to 3 whorls
Common Chickweed	S	S up to 6 lvs	S up to 6 lvs
Common Field Speedwell	S	S up to 6 lvs	S up to 6 lvs
Common Fumitory	S	S up to 3 lvs	S up to 3 lvs
Common Orache	MS	-	-
Common Poppy	MS	S up to 6 lvs	S up to 6 lvs
Corn Marigold	S	-	-
Fat-hen	MS	S up to 2 lvs	S up to 2 lvs
Field Forget-me-not	MS	S up to 1 leaf	S up to 2 lvs

	Chronicle		
Product Rate (l/ha)	3	2	3
Application timing	Pre-em	Post-em	
Field Pansy	MS	S up to 4 lvs	S up to 4 lvs
Hemp-nettle (Day Nettle)	S	-	-
Henbit Dead-nettle	S	-	S up to 6 lvs
Ivy-leaved speedwell	S	S up to 6 lvs	S up to 6 lvs
Knotgrass	MS	-	-
Parsley Pirot	S	-	S up to 2 lvs
Red Dead-nettle	S	S up to 6 lvs	S up to 6 lvs
Scarlet Pimpernel	S	-	-
Shepherd's Purse	S	S up to 6 lvs	S up to 6 lvs
Smooth Sowthistle	MS	-	-
Volunteer Oilseed Rape (1)	S	MS up to 2 lvs	MS up to 2 lvs

S = Susceptible

MS = Moderately susceptible

MR = Moderately resistant

(1) = deep germinating volunteer Oilseed Rape may not be controlled.

Resistance Management

GROUP	3	12	HERBICIDES
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Strains of some annual grasses (eg Blackgrass, Wild-Oats, and Italian Ryegrass) have developed resistance to herbicides, which may lead to poor control. Picolinafen is an inhibitor of carotenoid biosynthesis at the PDS step (a group that includes picolinafen and diflufenican). A strategy for preventing and managing such resistance should be adopted. To prevent the development of resistant weeds herbicides with different modes of action must be used when applying in sequence. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the AHDB, CPA, your distributor, crop adviser or product manufacturer.

Crop Specific Information

All varieties of Winter and Spring Wheat, Winter and Spring Barley, Winter Rye and Winter Triticale.

Time of application

Pre- and post-crop emergence, up to and including crop growth stage 13 (3 true leaves).

For winter drilled crops DO NOT apply pre-emergence to crops drilled after 30 November.

Rate of application

Apply Chronicle at 2 or 3 l/ha in 200 litres of water per hectare.

Following Crops

Following autumn use of Chronicle

Following crops after normal harvest

There are no restrictions on following crops other than rye-grass when Chronicle is used alone. For ryegrass, ploughing or cultivation to at least 15 cm is required prior to drilling.

In the event of crop failure

Spring wheat, spring barley, and winter field beans can be sown after crop failure. Plough to at least 15 cm and allow a minimum of 8 weeks between using Chronicle and sowing.

Maize, oilseed rape, peas, or spring field beans can be sown in spring after crop failure. Minimal non-inversion soil cultivation (to 5 cm) is required before drilling. At least 5 months must elapse between using Chronicle and sowing maize.

Following Spring use of Chronicle

Following crops after normal harvest

Oilseed rape, winter field beans, winter cereals, and ryegrass can be sown in autumn following normal harvest. Minimal non-inversion soil cultivation (to 5 cm) is needed before the sowing of oilseed rape or winter field beans. Ploughing to a depth of at least 15 cm is needed before sowing winter cereals and ryegrass. At least 6 months must elapse between using Chronicle and sowing ryegrass.

Maize, spring field beans, peas, spring wheat, and spring barley can be sown in spring following normal harvest. Minimal non-inversion soil cultivation (to 5 cm) is needed before sowing.

In the event of crop failure

Spring wheat, spring barley, peas, spring field beans, maize, and spring oilseed rape can be sown after crop failure. Plough to at least 15 cm and allow a minimum of 8 weeks to elapse between using Chronicle and sowing.

Mixing and Application

Mixing

Apply Chronicle in 200 litres water/ha.

Ensure good, even spray cover of the target using a spray of **fine** or **medium** quality (BCPC definition).

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 Chronicle to the spray tank while re-circulating 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.

Tank cleaning

After spraying, thoroughly clean and flush out application machinery with a minimum of three rinses, using a wetting agent or a proprietary spray tank cleaner to ensure that all traces of product are removed, particularly before using the sprayer in broad-leaved crops.

Compatibility

For details of compatibilities contact your distributor, local BASF representative, the BASF Technical Services Hotline: 0845 602 2553 or visit our website www.agricentre.basf.co.uk

Trade Mark Acknowledgments

Chronicle is a registered trademark of BASF.

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 Products Regulations.

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/Chronicle/MSDS

Alternatively, contact your supplier.

SPECIMEN

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The LERAP record form must be kept available for three years.

Storage and disposal

DO NOT RE-USE CONTAINER for any other purpose.

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