



# CHROME<sup>®</sup>



ADAMA



**HERBICIDE**

**Suspension concentrate**

**MAPP 20796**

**H**



### Ingredients

● Flufenacet .....	80 g/l (7.1% w/w)
● Diflufenican .....	40 g/l (3.6% w/w)
● Chlorotoluron .....	280 g/l (25% w/w)

Also contains 1,2-Benzisothiazoin-3-one and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one.



### Crops

A residual herbicide for the control of certain grass weeds and broad-leaved weeds in winter barley, winter wheat, winter rye and winter triticale.

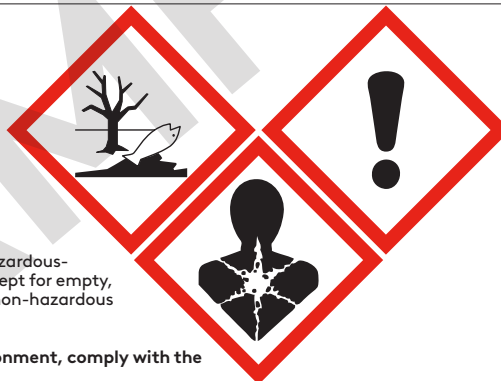


### Warning

May cause an allergic skin reaction.  
 Suspected of causing cancer.  
 Suspected of damaging the unborn child.  
 Very toxic to aquatic life with long-lasting effects.

Keep out of reach of children.  
 Obtain special instructions before use.  
 Wear protective gloves & protective clothing.  
 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.



### Scan for Safety Data Sheet

Or use the weblink : <https://bit.ly/3ufVWnp> Alternatively, contact your supplier.



R3.0 May 24

This label is compliant with the Voluntary Initiative Guidance.

**NO VARNISH AREA**

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# CHROME®



ADAMA



## HERBICIDE

### Suspension concentrate

MAPP 20796



PROTECT FROM FROST

SHAKE WELL BEFORE USE

**GROUP 15 | 12 | 5 HERBICIDE**

#### 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 they provide an equal or higher standard of protection.

##### 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 avoid risks to breeding birds, only apply this product from 1<sup>st</sup> September to 31st December.

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

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 Division'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 water body, or within 1 m 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

KEEP OUT OF THE REACH OF CHILDREN

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS

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

WASH OUT CONTAINER THOROUGHLY empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

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

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

#### IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS A AN AGRICULTURAL HERBICIDE

<b>Crops:</b>	Winter barley, winter wheat, winter rye & winter triticale
<b>Maximum individual dose:</b>	1.8 litres per hectare
<b>Maximum number of applications:</b>	1 per crop
<b>Latest time of application:</b>	Up to end of crop tillering stage (GS 29) and before 31 <sup>st</sup> December in year of planting
<b>Aquatic buffer zone distance:</b>	6 metres (further details provided under 'Environmental Protection').

##### Other specific restriction:

This product must not be applied via hand-held equipment.

**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.**

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This leaflet/booklet is part of the approved label.

**CHROME® (MAPP 20796)** is a suspension concentrate formulation containing 80 g/L (7.1% w/w) flufenacet, 40 g/L (3.6% w/w) diflufenican and 280 g/L (25% w/w) chlorotoluron.

It also contains 1,2-Benzisothiazoin-3-one and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one.

It is a residual herbicide for the control of certain grass weeds and broad-leaved weeds in winter barley, winter wheat, winter rye and winter triticale.

## 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.*

### RESTRICTIONS OR WARNINGS

Seedbeds must have a fine, firm tilth. Loose or cloddy seedbeds should be consolidated to avoid reduced weed control or crop damage from inadequate seed cover.

For best results apply to a moist seedbed. Do not apply to dry, cracked or waterlogged soils.

DO NOT treat under-sown cereals or those due to be under-sown.

DO NOT treat broadcast crops.

DO NOT apply if crop is stressed due to water-logging, drought, nutrient deficiency, pest infestation etc.

DO NOT apply during prolonged periods of frosty weather. Frost following application may cause crop damage.

DO NOT apply if heavy rain is expected within 4 hours.

Adverse crop effect (paling/bleaching, reduction in vigour) may occur when there is very wet weather before and after application, particularly on crops grown on light free draining soils or where soils become waterlogged. These effects are typically transitory in nature and will have no adverse effect on crop yield in most cases.

DO NOT disturb the soil after application (e.g. by harrowing or rolling).

DO NOT soil incorporate.

DO NOT apply to soils with greater than 10% organic matter as efficacy will be reduced.

DO NOT use on sands or very light soils (ADAS 85 classification) or very stony or gravelly soils, as there is a risk of crop damage.

DO NOT overlap spray swaths.

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

Effectiveness using three-star drift reduction technology may be reduced.

When using the product at a rate of 1.8 L/ha extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

### **RESISTANCE MANAGEMENT**

Strains of some annual grasses e.g. black-grass, wild oats and Italian rye-grass 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 AHDB, your distributor, crop advisor or product manufacturer.

Chrome® contains three active ingredients with different modes of action. Chrome contains flufenacet a group 15 herbicide, diflufenican a group 12 herbicide and chlorotoluron a group 5 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 Chrome 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.

## WEEDS CONTROLLED

Chrome is a suspension concentrate formulation used as a herbicide against annual dicotyledonous weeds and grass weeds in winter wheat, winter rye, winter barley and winter triticale. It is absorbed by the roots, shoots and leaves. The soil should be moist at the time of application to give improved efficacy.

Application should be made pre or early post-emergence of the weeds. The weed susceptibilities are shown below.

Weed	Pre-emergence application		Post-emergence application	
	1.2 L/ha	1.8 L/ha	1.2 L/ha	1.8 L/ha
Blackgrass	-	MR	-	MR to 1 tiller
Cleavers	-	S	S to 3 side shoots visible	S to 3 side shoots visible
Common chickweed	S	S	S to 1 side shoot visible	S to 5 side shoots visible
Common field speedwell	S	S	S to 2 true leaves	S to 3 true leaves
Common poppy	S	S	S to 2 true leaves	S to 4 true leaves
Wall speedwell	-	-	S to cotyledon stage	S to cotyledon stage
Corn chamomile	-	-	-	S to 4 true leaves
Field forget-me-not	-	-	S to cotyledon stage	S to cotyledon stage
Field pansy	S	S	S to 4 true leaves	S to 4 true leaves
Field pennycress	S	S	S to 2 true leaves	S to 4 true leaves
Henbit deadnettle	-	-	S to cotyledon stage	S to cotyledon stage
Italian rye grass	-	MS	-	-
Ivy-leaved speedwell	S	S	S to 2 true leaves	S to 2 true leaves
Loose silky bent	S	S	S to 2 tillers	S to 2 tillers
Red deadnettle	S	S	S to 2 true leaves	S to 2 true leaves
Scented mayweed	S	S	S to 2 true leaves	S to 4 true leaves
Scentless mayweed	S	S	S to 6 true leaves	S to 6 true leaves
Shepherd's-purse	S	S	S to 2 true leaves	S to 4 true leaves
Volunteer oilseed rape	-	S	S to 2 true leaves	S to 2 true leaves
Wild pansy	S	S	S to 1 true leaf	S to 1 true leaf

- = not available or not advised

## **CROP SPECIFIC INFORMATION**

This product is authorized in winter wheat, winter barley, winter rye & winter triticale. Growers choosing to apply this product to winter sown spring varieties should note that crop safety has not been demonstrated in spring varieties. As a result, application of this product to winter sown spring varieties is done so at the growers own commercial risk (and this also applies to unclassified varieties).

### **Timing**

Apply Chrome pre- or post-emergence up to before leaf sheath erect stage (BBCH GS 30).

This must be done before 31st December in year of planting.

### **RATE OF USE**

Apply Chrome at 1.2 - 1.8 litres per hectare in 200 - 300 litres of water per hectare.

### **FOLLOWING CROPS AND CROP FAILURE**

Following harvest:

Plough or cultivate to at least 15 cm before planting following crops of sugar beet, carrot & spring barley. Ensure thorough soil mixing before planting. Oilseed rape & maize can be drilled without any special cultivations.

In the event of crop failure, for any reason, plough to at least 15 cm and sow only winter wheat and barley.

Where diflufenican containing products are applied to successive cereal crops, levels of diflufenican will build up in the soil. Even with ploughing to 15cm and thorough mixing of the soil, there may still be a risk of damage to following crops of onions, leeks, other allium crops and clover. As a precaution, users who rent out their land to growers of these crops should not use diflufenican containing products in successive years before renting out that land.

### **MIXING AND SPRAYING**

Ensure the sprayer is clean and in good working order. Calibrate according to the sprayer manufacturers recommendations.

Half-fill the spray tank with clean water and begin agitation. Add the required quantity of Chrome to the tank and complete filling. Continue agitation until spraying is complete.

Do not leave the sprayer standing with the spray mixture in it for a long period of time.

Wash out the sprayer thoroughly after use, using a wetting agent or a proprietary tank cleaner.

Apply as a MEDIUM spray as defined by BCPC.

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## COMPANY ADVISORY INFORMATION

*This section is not part of the Product Label under the Plant Protection Products Regulations and provides additional advice on product use at the discretion of ADAMA Agricultural Solutions UK Ltd.*

### 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.

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