

FMC

DINIRO

Herbicide

Herbicide for the control of annual and perennial broad-leaved and grassweeds in forage and grain maize.

MAPP 19339

A water dispersible granule containing 40 g/kg prosulfuron, 400 g/kg dicamba and 100 g/l nicosulfuron.

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

Approval Holder

Syngenta UK Limited
CPC4 Capital Park, Fulbourn, Cambridge
CB21 5XE, Tel: (01223) 883400
In case of toxic or transport emergency ring
+44 (0)1484 538444 any time

PROTECT FROM FROST SHAKE WELL BEFORE USE

Batch Number: see elsewhere on the container

Marketing Company

FMC Agro Limited
Rectors Lane, Pentre, Flintshire
CH5 2DH

Technical Helpline: 01423 205011

Net contents: **2,4kg e**

WARNING

**Causes serious eye irritation.
Very toxic to aquatic life with
long lasting effects.**

Keep out of reach of children.
Avoid release to the
environment.

Wear eye protective/face protection.
IF IN EYES: Rinse cautiously with water
for several minutes. Remove contact
lenses, if present and easy to do.

Continue rinsing.
If eye irritation persists: Get medical
advice/attention.
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.**



**Emergency No.s - Medical Incidents Involving
Crop Protection Products:** England & Wales: 111,
Scotland: 08454 24 24 24, Northern Ireland: Local GP
or Pharmacist, Republic of Ireland: 01 837 9964.
Healthcare professionals seeking poisons information:
www.toxbase.org.

**Emergency No.s - Transportation, Warehousing &
After Sale Incidents:** CHEMTREC help centre Dialling
from the UK and NI: 0870 820 0418,
Dialling from Ireland: 01 901 4670



This product label is
compliant with the CPA
Voluntary Initiative (VI)
guidance.

FMC

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Rectors Lane, Pentre, Flintshire,
CH5 2DH.
Tel: 01244 537370.
www.fmc-agro.co.uk
Flintshire.enquiry@fmc.com

To access the Safety Data Sheet for this
product scan the QR code or use the
weblink: <https://data.fmc-agro.co.uk/wp-content/uploads/DINIRO-SDS.pdf>

Alternatively, contact
your supplier



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P 032C P 2408C **CYAN** **MAGENTA** **YELLOW** **BLACK**

	FILL IN		DIMENSIONS (WXH)
Country	GREAT BRITAIN AND NORTHERN IRELAND	Single label	x
Product SKU	11004353	Base for Booklet	x
Product SKU Description	DINIRO_2.4KG_GB	Booklet	135 x 150 mm
Label SKU	22047393	Number of pages (Booklet)	4 pages
Label SKU Description	LBL_ML-F_2.4KG_DINIRO_UK_2	Carton label	x
Label SKU (earlier version(s))	15141698	Preprinted Material	x

**IMPORTANT INFORMATION
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

Crop	Maximum individual dose (kg product/ha)	Maximum number of applications	Latest time of application
Forage and Grain Maize	0.4	1 per crop	Up to and including 8 true leaves (BBCH 18)

Other Specific Restrictions:

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with the 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years. The earliest time of application is 01 June.

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

Use shall be limited to one application every three years on the same field, at a maximum dose of 20 g active substance (proflusuron) per hectare.

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 carefully read in order to obtain safe and successful use of this product.

RESTRICTIONS

Do not apply to forage maize and grain maize grown for seed production.

Do not mix with adjuvant oils or fertilisers except as specified on this label.

Only treat healthy maize, preferably in good growing conditions, when the vegetation is dry.

DINIRO is generally highly selective of maize. In exceptional situations (cold, heavy rain), use of DINIRO can temporarily slow down growth. Do not use during periods of frosty weather, when frost is imminent, or onto crops under stress from frost, water logging, insect attack or drought.

Special care should be taken to avoid damage by drift to broad-leaved plants outside the target area or land intended for cropping e.g. lucerne, sugar beet, sunflower, oilseed rape, peas, vegetable crops, potatoes, soybean, floral and ornamental crops, vines and fruit trees.

Optimum temperature for application: 10 - 25°C. It is preferable to postpone application if an unfavourable weather period is expected (daily range of temperatures greater than 15°C, cold periods with temperatures lower than 10°C on the 3 days prior to, or following application).

Ensure spraying equipment is thoroughly washed out according to

specific instructions after use. Do not allow washings-out to drain onto land intended for cropping or growing crops.

Do not mix with liquid fertilizers.

Do not apply DINIRO in sequence or in tank-mix with a product containing any other ALS inhibiting herbicides.

WEEDS CONTROLLED

DINIRO is a herbicide based on proflusuron, dicamba (sodium salt) and nicosulfuron. It is used in maize post-emergence of weeds for the control of annual and perennial broadleaved and grass weeds.

DINIRO combines two different modes of action: it is absorbed by the leaves and roots of the plant, and it also has a residual activity on some sensitive weeds.

DINIRO is available in the form of dispersible granules.

Always use DINIRO with Adigor or Biopower.

DINIRO can be used to control the following weeds in maize,

Weed species	DINIRO at 0.4 kg/ha + adjuvant	Latest time of application
Broad leaved weeds		
Common amaranthus	S	6 true leaves
Fat hen	S	6 true leaves
Black nightshade	MR	6 true leaves
Field pansy	S	6 true leaves
Black bindweed	S	4 true leaves
Redshank	S	8 true leaves
Common chickweed	S	Flower buds visible
Cleavers	S	6 whorls visible
Field bindweed	MR	3 side shoots visible
Red Deadnettle	S	4 true leaves
Common field speedwell	R	8 true leaves
Pale persicaria	S	4 true leaves
Shepherd's Purse	S	2 internodes
Gallant-soldier	S	8 true leaves
Scentless mayweed	S	6 true leaves
Field pennycress	S	Flower buds visible
Grass weeds		
Blackgrass	MR	3 leaves unfolded
Couch Grass *	MS	4 tillers detectable
Italian millet/ Foxtail bristleglass	MS	4 leaves unfolded
Cocksbur	MS	3 tillers detectable
Hairy finger grass	MR	2 leaves unfolded
Annual meadow grass	S	3 leaves unfolded

KEY: S = susceptible, MS = moderately susceptible, MR = moderately resistant, R = resistant.

*Long term control of common couch has not been established.

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WEED RESISTANCEResistance Strategy

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 dominant. A weed species is considered resistant to a herbicide if it survives correctly applied treatment at the recommended dose.

Development of resistance within a weed species can be avoided or delayed by sequencing or tank-mixing with suitable products having a different mode of action. This is particularly important if continuous maize is grown.

DINIRO is a sulfonylurea herbicide. Its mode of action is via ALS-inhibition. Use only as part of a resistance strategy that includes cultural methods of control and does not use DINIRO or any other 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 AHDB, CPA, your distributor, crop adviser or product manufacturer. This product contains nicosulfuron and prosulfuron which are ALS-inhibitors, also classified by the Herbicide Resistance Action Committee as 'Group B'.

CROP SPECIFIC INFORMATION**Timing and Rates of Use**

DINIRO should be applied to the maize crop from 2 leaves emerged up to 8 leaves emerged.

The addition of an approved adjuvant is required. Always use adjuvants at their recommended rates.

FOLLOWING CROPS AND RECULTIVATION

Recultivation Only maize can be re-drilled after a waiting period of 4 weeks and the soil has been ploughed in the case of crop failure.

Rotational crops

Planting the following crops is not recommended: lucerne, sorghum sugar beet, sunflower.

Under adverse conditions (poor soil, low pH, dry cold winter etc) succeeding crops of winter wheat and Winter barley may display symptoms of phytotoxicity, however these are transient and have no significant effect on yield

Autumn

Winter wheat and winter barley can follow a forage maize and grain maize crop treated with DINIRO provided the soil has been ploughed to a depth of 15cm

Spring

Forage maize and grain maize, ryegrass, spring wheat and spring barley may be sown in the spring following application of DINIRO, do not sow any other crop at this time.

MIXING AND SPRAYING

Spray Volume Use a water volume of 200 - 400 litres per hectare.

Spray Nozzles A medium spray quality is preferred for application of DINIRO (see BCPC guidelines).

A spray pressure of 2-3 bar is recommended.

Mixing and Spraying

Make sure the sprayer is set to give an even application at the correct volume.

Dry Mixing - Sprayers with Induction Hoppers Fill sprayer to 15% of tank capacity with water and start agitation. Pour DINIRO into the induction hopper and open valve in bottom of hopper to suck the granules into the circulating spray mix. Continue adding DINIRO until loading is complete. Wash down any granules on the hopper wall and close valve. Add the adjuvant and continue agitation whilst adding the rest of the water.

Note for Old Sprayers with Indirect Venturi Induction Hoppers In the unlikely event of problems occurring during dry induction of the granules (blocked venturi), open the rinse ring and add water to the hopper. As soon as product induction continues, carry on adding product until the required amount is reached.

Sprayers Without Induction Hoppers Fill sprayer with a minimum of 15 cm of water in the bottom and agitate vigorously. Pour DINIRO through the sprayer lid. Add the adjuvant and continue agitation whilst adding the rest of the water. Agitate the mixture thoroughly before use and continue agitation during spraying. Take particular care to avoid overlapping spray swathes. Thoroughly wash all spray and measuring equipment with water according to the directions below immediately after use.

Washing-out instructions

To avoid subsequent injury to crops, immediately after spraying thoroughly clean the application equipment and protective clothing. Ensure that all traces of product are removed. The following recommendations are to be strictly followed:

1. Drain spray system completely. Rinse tank, spray boom and nozzles with clean water for several minutes and spray out.
2. Half fill the spray tank with clean water and add to it sodium hypochlorite (5.2%) (commercial chlorine bleach) at a dose of 1 litre for every 200 litres of full spray tank capacity and continue filling with clean water until sprayer is completely full. Agitate for 15 minutes and spray out cleaning solution through spray nozzles.
3. To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush out through hoses and boom.
4. Nozzles and filters should be removed and cleaned separately along with protective equipment.

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SAFETY PRECAUTIONS**(a) 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),
SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the product.

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

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

AVOID ALL CONTACT WITH SKIN. WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

(b) Environmental protection

Since there is a risk to aquatic life from use, users not applying the statutory buffer zone must either themselves carry out or ensure that someone else has carried out a Local Environment Risk Assessment for Pesticides (LERAP) on their behalf before each spraying operation from a horizontal boom sprayer. Users must not allow direct spray from such sprayers to fall within 5m of the top of the bank of any static or flowing waterbody or within 1m of a ditch which is dry at the time of application (these distances to be measured as set out in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers' and any amendments that are made to it) unless:

- (a) The LERAP indicates that a narrower buffer zone will be sufficient; and
- (b) Any measures indicated by the LERAP as justifying the narrower buffer zone are complied with in full and in accordance with any conditions applicable to them.

Spray must be aimed away from water.

The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).

Detailed guidance on LERAPs and how to conduct a LERAP are contained in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers', available from HSE Chemicals Regulation Division's website. All LERAPs must be carried out in accordance with this Guidance and any amendments that are made to it.

(c) Other specific restrictions:

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with the 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years. The earliest time of application is 01 June.

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Use shall be limited to one application every three years on the same field, at a maximum dose of 20 g active substance (proflurofen) per hectare.

(d) Storage and disposal

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.

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