

 OPEN HERE
PINNACLE

Herbicide containing 500 g/kg
thifensulfuron methyl

**Very toxic to aquatic life with
long lasting effects.**

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.

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 human health and the
environment, comply with the instructions for
use.**

WARNING**FMC**

PINNACLE

Herbicide

MAPP 18781

**A soluble granule containing 500 g/kg thifensulfuron-
methyl, a sulfonylurea, for control of broad-leaved
docks in rotational or established grassland and
in green cover on land temporarily removed from
production e.g. set-aside.**

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

This label is compliant with the
CPA Voluntary Initiative Guidance



The Voluntary Initiative

Contents: **45 g e**

F-05277/31909 - UK

FMC Agro Limited, Rectors Lane, Pentre, Flintshire, CH5 2DH.
Tel: 01244 537370. Email: fmc.agro.uk@fmc.com

Website: www.fmc-agro.co.uk

Technical Helpline: 01423 205011

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

Manufactured in the E.U.

**To access the Safety Data Sheet
for this product scan the code**



Batch N°:



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F-05277/31909 - UK



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

- Do not apply to any crop suffering from stress as a result of drought, water-logging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Contract agents should be consulted before using on crops grown for seed.
- Do not apply within seven days of rolling or harrowing grassland.
- Do not graze within seven days of application.
- Do not apply to cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- Only one application of a sulfonylurea containing product may be applied per calendar year to grassland and green cover on land temporarily removed from production e.g. set-aside.
- Due to the high level of activity of Pinnacle, special care must be taken to avoid damage by drift onto broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleansing of equipment is also very important - see below.

- Spray equipment should not be drained or flushed onto land planted with or intended for planting with trees or crops other than cereals.

Weed Control

Pinnacle is a highly active sulfonylurea herbicide that works mainly by foliar action with some root activity. Good spray cover of weeds must be obtained and, since larger weeds often become less susceptible, it is important to note the size of each weed at the time of application. Susceptible plants cease growth almost immediately after post-emergence application and symptoms can be seen about two weeks after application. It is important to identify the weeds occurring in the crop and refer to the weed table to ensure that the weeds present are those susceptible to Pinnacle.

In established grassland and green cover on land temporarily removed from production Pinnacle controls broad-leaved docks (*Rumex obtusifolius*) by rapidly inhibiting the growth of both root and shoot tips. However, visual signs of weed control may take up to two weeks to appear and are characterised by death of the growing point with yellowing or reddening of the leaves. Due to the exceptional vigour of the species, established docks with large tap-roots may require a follow-up treatment. Also, in some situations, such as very high



dock populations, a further application will be necessary in the following year. However, it should be noted that only one application of thifensulfuron-methyl can be made per calendar year, including where a “follow-up treatment” or “further application” is recommended (see Restrictions).

Curled docks (*Rumex crispus*) are resistant to Pinnacle. Broad-leaved docks germinating after application are not controlled.

Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visible sign of the dead weed. Do not include treated ragwort in hay or silage crops.

RESISTANCE

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 dominating. A weed species is considered resistant to a herbicide if it survives a correctly-applied treatment at the recommended dose. Development of resistance within a weed species can be avoided or

delayed by alternating (or tank-mixing) with suitable products having a different mode of action.

A strategy for preventing and managing resistance should be adopted. The Weed Resistance Action Group has produced guidelines and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

Crops

Pinnacle can be used in rotational or established grassland and in green cover on land temporarily removed from production e.g. set-aside.

Grassland

Pinnacle can be applied to well established grassland. Do not treat new leys in the same calendar year. Damage to the sward, resulting in a loss of dry matter production, may occur under stress conditions. Do not apply *Pinnacle* where nutrient imbalances, drought, water-logging, high or low temperatures, lime deficiency, pest or disease attack or any other factor that can reduce sward vigour. The health of the sward should be examined before application. *Pinnacle* may cause an initial check to clover, which is usually outgrown. A transient check and yellowing of the sward may occur. *Pinnacle* is not recommended on intensively managed short-term leys that are cut for silage.

Dose

Apply Pinnacle at 22.5 g/ha.

Timing

Pinnacle should be applied seven to ten days before grazing during the growing season. Broad-leaved docks are susceptible during the rosette stage up to the onset of stem extension, with best results achieved from application onto young, green foliage when the weed is actively growing. Pinnacle should not be applied to docks with mature or developing seed heads or during periods of dormancy. Under such circumstances the weed should be topped and the regrowth subsequently treated.

Green cover on land not being used for crop production

Pinnacle may be applied to areas temporarily removed from production where the green cover is made up predominantly (*i.e.* sufficient to maintain reasonable cover) of grassland/winter and spring wheat and barley. Where established grass species are the main cover crop, a transient check and yellowing of the grass may occur. Pinnacle is selective to seedling cereals from the three leaf stage (GS 13) but should not be used on seedling grasses. Most other broad-leaved plants occurring in the "set-aside" area will be damaged by Pinnacle, hence it may not

be suitable for use where wild flower borders or other forms of conservation headland are to be developed. Before using on land taken out of production as part of a grant-aided scheme, ensure compliance with the management rules of that scheme.

Dose

Apply Pinnacle at 22.5 g/ha.

Timing

Pinnacle may be applied in the spring and summer during the approved 'set-aside period'. Pinnacle effectively controls broad-leaved docks, with best control achieved from application three weeks after cutting.

Following crops

Pinnacle has little residual activity and, when used as recommended, there are no restrictions on crops which can be sown in normal rotation following treated cereals. However cereals or grass should only be sown within one month of applying Pinnacle to established grassland or to "set-aside" land. In the event of crop failure for any reason, cereals or grass should also only be sown within one month of application.

Volume and application

BEFORE USING PINNACLE, SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES.

Application should be made in 200 litres of water per hectare using suitable ground equipment to give good spray cover of the weeds. When crops are thick or weed growth dense, use 400 litres/ha. When applying Pinnacle, care should be taken not to overlap spray swaths.

Soil and weather

Pinnacle can be used on all soil types. Weed control may be reduced when conditions are very dry. Do not apply Pinnacle to wet foliage.

Mixing

Pinnacle mixes easily with water, but the following mixing procedure should be followed: Quarter fill the spray tank with water, start the agitation and add the required quantity of Pinnacle directly to the tank. Continue agitation while topping up the tank and until spraying is completed.

Compatibility

In any tank-mix add Pinnacle to the tank first and ensure it is fully dispersed before adding the partner product. Products should only be tank-mixed if each product can be applied within the label recommendations for its use.

Spray tank clean-out

POOR CLEANOUT PRACTICES AND INSUFFICIENT WATER VOLUMES USED FOR THE RINSE PROCEDURE MAY RESULT IN INADEQUATE REMOVAL OF PRODUCT DEPOSITS. SUBSEQUENT USE OF APPLICATION EQUIPMENT IN THESE CIRCUMSTANCES MAY RESULT IN DAMAGE TO NON-CEREAL CROPS.

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING PINNACLE THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

Always start with a clean tank and spray system. Clean spray equipment thoroughly immediately after use.

1. Thoroughly and completely rinse all interior tank surfaces (including lid) with water (use at least 10% of the tank capacity), taking care to remove any visible deposits. Flush pump, filters and boom after removing in-line strainers, nozzle tips and screens (clean these parts separately). Drain the remainder of the rinsate from the tank.

2. Repeat the rinse, flush and drain.

Note:

Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

NOTICE TO BUYER

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, 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.

All manufacturers trademarks are duly acknowledged.

SAFETY PRECAUTIONS

Operator protection

DO NOT BREATHE SPRAY

WASH HANDS AND EXPOSED SKIN 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

Other specific restrictions:

- (1) Livestock must be kept out of treated areas for at least 7 days after treatment.
- (2) A full green cover must be established before the pesticide is applied.
- (3) This product must only be applied to green cover on land temporarily removed from production where the cover crop is predominantly (i.e. sufficient to maintain reasonable cover) grassland or winter and spring wheat and barley.

Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place
EMPTY CONTAINER COMPLETELY and dispose of safely.

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

WARNING

IMPORTANT INFORMATION**FOR USE ONLY AS A PROFESSIONAL HERBICIDE**

Crops	Maximum Individual Dose (g/ha)	Maximum number treatments	Latest time of application
Grassland, green cover on land not being used for crop production	22.5 g/ha	One per year	-

Other specific restrictions:

A full green cover must be established before the pesticide is applied.

This product must only be applied to green cover on land temporarily removed from production where the cover crop is predominantly (i.e. sufficient to maintain reasonable cover) grassland or winter and spring wheat and barley.

Livestock must be kept out of treated areas for at least 7 days following treatment. If ragwort is present, the guidance in the DIRECTIONS FOR USE must be followed.

**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**







