

(Label main area front panel)



PUNCH® C Fungicide MAPP 13023

A suspension concentrate containing 125 g/litre (11.8% w/w) carbendazim and 250 g/litre (23.6% w/w) flusilazole. A systemic fungicide for broad-spectrum disease control in winter and spring barley, winter and spring wheat, winter and spring oilseed rape and sugar beet.

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:

DO NOT APPLY BY HANDHELD EQUIPMENT

WEAR SUITABLE PROTECTIVE CLOTHING (IMPERMEABLE COVERALLS), SUITABLE PROTECTIVE GLOVES*, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) when handling the concentrate, handling the spray boom and contaminated surfaces, adjusting nozzles and when applying by vehicle mounted equipment. * Butyl or nitrile rubber at least 0.5mm thick. However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental protection

DAINGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN

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.

Du Pont (UK) Limited, Crop Protection Products

Wedgwood Way, STEVENAGE

Herts. SG1 4QN

Tel: 01438 734450

Emergency Tel: 08456 006640

National Poisons Information Service: (0870) 600 6266

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This label is compliant with the CPA Voluntary Initiative Guidance

**PROTECT FROM FROST.
SHAKE WELL BEFORE USE**

**Contents: 5 litres e
Manufactured in E.U.
Batch N° XXXX**

PUNCH® C



**HARMFUL IF SWALLOWED
LIMITED EVIDENCE OF A CARCINOGENIC EFFECT
RISK OF SERIOUS DAMAGE TO EYES
MAY CAUSE SENSITISATION BY SKIN CONTACT
MAY CAUSE HARM TO THE UNBORN CHILD
MAY CAUSE HERITABLE GENETIC DAMAGE
MAY IMPAIR FERTILITY**

TOXIC



**TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM
ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT**

DAINGEROUS FOR THE ENVIRONMENT

This material and its container must be disposed of in a safe way
Use appropriate containment to avoid environmental contamination

Do not breathe vapour/spray

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Wear suitable protective clothing, gloves and eye/face protection

In case of insufficient ventilation wear suitable respiratory equipment

In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

Avoid exposure - obtain special instructions before use

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

IMPORTANT INFORMATION

Field of Use: FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops	Maximum individual dose (litres product /ha)	Maximum no. treatments (per crop)**	Latest time of application
Wheat	(i) 0.8 and/or (ii) 0.625	One	Before third node detectable stage Before early milk stage
Winter barley, spring barley	(i) 0.8 and/or (ii) 0.625	One One	Before third node detectable stage Before ear emergence complete (GS59)
Winter and Spring Oilseed Rape	(i) 0.8 or (ii) 0.4	One Two	Before first flower open stage Before first flower open stage
Sugar beet	0.6	One	7 weeks before harvest

OTHER SPECIFIC RESTRICTIONS:

** For any individual crop, the maximum number of treatments refers to the total number of applications of any products containing carbendazim or thiophanate methyl and must not be exceeded.

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

-----*(Start of label leaflet)*-----

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 wheat later than the grain watery-ripe stage of growth
- Do not apply to barley later than ear emergence complete
- Do not apply to oilseed rape later than the "before first flower opened" stage of growth
- Do not apply to sugar beet less than 7 weeks before harvest.
- Do not apply to crops under stress
- Do not apply during frosty weather
- Do not apply PUNCH® C (or any product containing carbendazim or thiophanate-methyl) more than two times to any cereal crop.
- The total number of applications of any product containing flusilazole must not exceed three to a winter wheat crop or two to barley or spring wheat crops.

Disease resistance

PUNCH® C contains a DMI fungicide. Resistance to some DMI fungicides has been identified in Septoria leaf blotch (*Mycosphaerella graminicola*) which may seriously affect the performance of some products. For further advice on resistance management in DMI's contact your agronomist or specialist advisor, and visit the FRAG-UK website.

When fungicides with the same mode of action are used repeatedly over several years in the same field, naturally occurring less sensitive strains may survive, propagate and become dominant in that field. A pathogen is considered resistant to a fungicide if it survives a correctly applied treatment at the recommended dose and timing, under normal weather conditions. Development of resistance within a pathogen can be avoided or delayed by alternating or mixing products having a different mode of action.

Crops

CEREALS

PUNCH® C can be used on all varieties of winter wheat, spring wheat, winter barley and spring barley.

Disease control

PUNCH® C is a broad-spectrum systemic fungicide for the control of a wide range of diseases of wheat and barley. Its two active ingredients have different modes of action and the mixture will help prevent the development and build-up of some strains of resistant fungi. At the higher rate of application PUNCH® C is active against eyespot, both MBC-sensitive and MBC-resistant strains. At the normal rate of application PUNCH® C controls *Septoria tritici*, *Septoria nodorum*, *Rhynchosporium*, net blotch, powdery mildew, and yellow and brown rusts. The fungicide can be applied in spring or early summer and up until the watery-ripe stage of grain development on wheat or up to ear emergence complete on barley. Disease control is generally more effective if PUNCH® C is applied at an early stage of disease development. Disease control in cereals can be achieved by a routine programme of preventative spray treatments or by regular monitoring of crops and spraying only when diseases are building up. PUNCH® C, with broad-spectrum eradicant and protectant activity, is suitable for both of these disease control systems.

Strains of eyespot, *Septoria tritici* and *Fusarium* spp resistant to MBC fungicides (carbendazim and thiophanate-methyl) are common throughout the UK. MBC fungicides are ineffective against these strains. Strains of cereal powdery mildew with decreased sensitivity to triazole fungicides are known to exist in the UK. Where these occur or develop the activity of these flusilazole components of PUNCH® C may be reduced.

Timings

Wheat :

PUNCH C at 625 ml/ha can be applied twice at any time up to the watery-ripe stage of crop growth. PUNCH C at 800 ml/ha can be applied once only per crop and only up to second node detectable stage of crop growth.

Barley :

PUNCH C at 625 ml/ha can be applied twice at any time up to ear emergence complete. PUNCH C at 800 ml/ha can be applied once only per crop and only up to second node detectable stage of crop growth.

Volume and application

Apply PUNCH® C in 200 litres of water/ha using spraying equipment to give good even coverage of the crop. Higher water volumes may be used in thick or dense crops to improve coverage.

Dose

- For control of Septoria, Rhynchosporium, net blotch, yellow rust, brown rust, and for the

reduction of wheat and barley powdery mildew*, apply PUNCH® C at 625 ml/ha in 200 litres of water/ha.

- For a useful level of control of eyespot in addition to the above diseases, apply a single spray of PUNCH® C at 800 ml/ha in 200 litres of water/ha. This rate must not be used more than once on any crop.

To prevent the selection and build-up of resistant strains of mildew, PUNCH® C can be tank-mixed with a fungicide of the morpholine group applied according to the manufacturer's recommendations.

Weather

PUNCH® C should not be applied during frosty weather. Rain occurring within two hours of application may reduce the effectiveness of the treatment.

Compatibility

For use on wheat and barley, PUNCH® C can be tank-mixed with the following, if applied within the manufacturer's label recommendations:

Fungicides – TERN (M08660), CORBEL (M00578)

Growth Regulators -Approved salt formulations containing chlormequat only or chlormequat plus choline chloride.

For additional compatibility information please consult the DuPont compatibilities product manual insert.

All manufacturers trademarks are duly acknowledged.

OILSEED RAPE

PUNCH® C can be used on all varieties of oilseed rape.

Disease control

PUNCH® C controls light leaf spot and phoma leaf spot and reduces canker.

Timing and dose

For control of light leaf spot and phoma leaf spot and reduction of canker, apply a single spray of 800 ml/ha when the diseases first occur in the crop, or a sequential spray of 400 ml/ha in the autumn and repeat with 400 ml/ha at the stem extension stage of the crop.

PUNCH® C can be applied in the autumn or spring up to "before first flower opened" stage of crop growth (GS 4.0).

Volume and application

Apply PUNCH® C in 200 litres of water/ha using spraying equipment to give good even coverage of the crop.

SUGAR BEET

PUNCH® C can be applied to all varieties of sugar beet.

Disease control

For the control of powdery mildew and rust. Best control is achieved if applied at an early stage of disease development.

Timings

Apply PUNCH® C at the onset of disease, usually in early August.

Volume and application

Apply PUNCH® C in 200 litres of water/ha using spraying equipment to give good even coverage of the crop.

Dose

Apply PUNCH® C at 600 ml/ha

MIXING

PUNCH® C MUST BE SHAKEN WELL BEFORE USE.

PUNCH® C mixes easily with water and should be added directly to the spray tank during filling. Wash out container and add washings to the spray tank. Continue agitation during filling and when spraying.

SPRAY TANK CLEAN-OUT

Immediately after application, completely drain spray equipment
Thoroughly rinse sprayer and flush the hoses, boom nozzles with clean water.
Loosen and physically remove visible deposits.
Remove and clean nozzles, screens and strainers.
Flush the entire system with clean water.
Take all necessary safety precautions when cleaning equipment.
Do not clean near wells or water sources.
Dispose of waste rinse water in accordance with local regulations.

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 trademarks duly acknowledged.

Safety Data Sheet

[insert text as appropriate]