

Joules



A suspension concentrate formulation containing 500 g/l (40.2% w/w) chlorothalonil.

A protectant fungicide for disease control in winter and spring wheat, durum wheat, rye, triticale and winter and spring barley.

Joules

PRODUCT BENEFITS

- Rainfast flowable formulation.
- A useful addition to tank mixes to improve control of *Septoria* and help manage resistance problems.
- An ideal early pre T1 treatment to contain over-wintered *Rhynchosporium* in winter barley and offering an alternative mode of action.

PCS No. 04784

Pack size: 10 litres

Storage: PROTECT FROM FROST



Grow a better tomorrow.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE.

Crop	Maximum individual dose	Maximum total dose	Latest time of application
Winter wheat, spring wheat, durum wheat, rye, triticale	2.0 l/ha	4.0 l/ha per crop	Before grain watery ripe stage (GS 71)
Winter barley, spring barley			Before beginning of flowering/first anthers visible (GS 61)
Method of application:	Tractor mounted/trailed sprayer		

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.

Additional Safety Phrases

To protect aquatic organisms respect an unsprayed buffer zone of 5 m to surface water bodies.

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.

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.

DISEASES CONTROLLED

JOULES contains chlorothalonil, a non-systemic broad spectrum protectant fungicide for use on wheat, durum wheat, rye, triticale and barley. Best results are obtained by treatment before disease enters the crop or at the first sign of attack.

JOULES controls the following diseases:

Winter and spring wheat	*Protection against <i>Septoria</i> Leaf blotch (<i>Mycosphaerella graminicola</i>) moderate control. Glume blotch (<i>Phaeosphaeria nodorum</i>) moderate control.
Durum wheat	*Protection against <i>Septoria</i> Leaf blotch (<i>Mycosphaerella graminicola</i>) moderate control. Glume blotch (<i>Phaeosphaeria nodorum</i>) moderate control.
Rye	<i>Septoria</i> Leaf blotch (<i>Mycosphaerella graminicola</i>) moderate control. Glume blotch (<i>Phaeosphaeria nodorum</i>) moderate control and Leaf scald (<i>Rhynchosporium secalis</i>) moderate control.
Triticale	<i>Septoria</i> Leaf blotch (<i>Mycosphaerella graminicola</i>) moderate control. Leaf scald (<i>Rhynchosporium secalis</i>) moderate control.
Winter and spring barley	Leaf scald (<i>Rhynchosporium secalis</i>) moderate control.

*The activity of JOULES against *Septoria* may be reduced in the presence of serious Mildew infection. If mildew is also a problem combined use of JOULES and a suitable mildew fungicide is recommended.

It is very important to achieve a good spray coverage of all foliage.

CROP SPECIFIC INFORMATION

Wheat, Durum Wheat, Rye, Triticale

Dose rate

2.0 l/ha.

Timing

Growth stage 30–32 Applied once up to maximum individual dose of 2.0 l/ha if *Septoria* is evident and/or conditions are favourable for the spread of the disease. This may give protection against the spread of *Septoria*.

Growth stage 33–65 Provides protection against *Septoria* on the flag leaf and ear and should normally be applied between the third node detectable stage (GS 33) and the mid-flowering stage (GS 65).

For best results apply up to 2.0 l/ha between the third node detectable stage (GS 33) and the flag leaf fully emerged stage (GS 39).

Water volume

Apply in a minimum of 160 litres of water per hectare.

Barley

Dose rate

2.0 l/ha.

Timing

Apply as soon as disease is first detected in the crop. A second application may be made up to GS 59 if severe *Rhychosporium* pressure occurs.

Water volume

Apply in a minimum of 160 litres of water per hectare.

Tank Mixes

JOULES should be used as part of an integrated fungicide programme.

MIXING AND SPRAYING

Ensure that the sprayer is clean and correctly set to give even application at the required volume. Use a MEDIUM spray (as defined by BCPC) at a pressure of at least 2.0 bar.

Half fill the spray tank with clean water and start agitation. Slowly invert the container several times and add the required amount of JOULES to the sprayer using a filling device (e.g. induction hopper) or by direct addition to the spray tank. Rinse the container clean. Preferably use an integrated pressure rinsing device or manually rinse three times. Add washings to the sprayer at the time of filling. Agitate during completion of filling and while spraying. Do not leave in spray tank for long periods without using.

COMPATIBILITY

Please consult your Nufarm distributor.

Before using any tank mixture also consult and comply with the recommendations of the partner product. Each product should be added separately to the bulk of water in the spray tank and thoroughly mixed before adding the next chemical. Agitate during completion of filling and spray immediately.

Joules is a registered trademark of Nufarm UK Limited.

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**DANGER**

Fatal if inhaled.

Causes severe eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Suspected of causing cancer.

Very toxic to aquatic life with long lasting effects.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist/vapours/spray.

Use only outdoors or in a well ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Store in a well ventilated place. Keep container tightly closed.

Avoid release to the environment.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple rinsed 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.

PCS No. 04784

Use plant protection products safely. Always read the label and product information before use. For product information including warning phrases and symbols refer to www.nufarm.com/ie.