

FUNGICIDE

SIRENA®

Contents: **5**L e



A fungicide for the control of a wide range of diseases in winter and spring wheat, durum wheat, winter and spring barley, triticale, rye, oilseed rape, peas, field beans and lupins, and a spring plant growth regulator in oilseed rape.

Batch No: see bottle
FOR PROFESSIONAL USE ONLY
PROTECT FROM FROST

An emulsifiable concentrate containing 60 g/L (6.7% w/w) metconazole.



MAPP No.: 17103

GROUP

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FUNGICIDE

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

For warehouse purpose only



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IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE AND PLANT GROWTH REGULATOR

Crops	Maximum individual dose (L product/ha)	Maximum total dose (L product/ha/crop)	Latest time of application
Barley, durum wheat, rye, triticale and wheat	1.5	3.0	Up to and including GS 71 (caryopsis watery ripe stage)
Oilseed rape	1.2	2.4	10% of pods at final size
Combining pea, field bean, lupin, vining pea	1.2	2.4	14 days before harvest

Other specific restrictions:

A minimum interval of 14 days must be observed between applications on oilseed rape, peas, beans and lupin.

A minimum interval of 21 days must be observed between applications on cereals.

To protect birds, only one application is allowed on cereals before GS 29 (end of tillering).

Non-returnable container must not be re-used for any purpose.

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.

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), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- * WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

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

- * IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).
- * WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.
- * WHEN USING DO NOT EAT, DRINK OR SMOKE

ENVIRONMENTAL PROTECTION

- * DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container. 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 protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.
- * DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre from the top of a ditch which is dry at the time

of application.

- * Where the product has a buffer zone of 5m or less (for horizontal boom sprayers without DRT) - a buffer zone of 1m from the top of the bank of a static or flowing water body will apply for hand-held spray application.
- * Where the product has a buffer zone of >5m (for horizontal boom sprayers without DRT) - the same buffer zone from the top of the bank of a static or flowing water body will apply for hand-held spray application.
- * Aim spray away from water.
- * This product qualifies for inclusion within the Local Environmental 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 CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

STORAGE AND DISPOSAL

- * KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
- * KEEP OUT OF REACH OF CHILDREN.
- * 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 container safely.
- * Non-returnable containers must not be re-used for any purpose.
- * PROTECT FROM FROST.
- * DO NOT STORE IN DIRECT SUNLIGHT.

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.

GENERAL INFORMATION

SIRENA is a broad spectrum fungicide with curative and protectant activity, which can be used on all commercial varieties of winter and spring wheat, durum wheat, winter and spring barley, triticale and rye. SIRENA can also be used on oilseed rape, field beans, combining and vining peas and lupins. When applied to oilseed rape in the spring, SIRENA can provide plant growth regulation in the form of a reduction in crop height.

RESTRICTIONS/WARNINGS

Do not apply to oilseed rape crops that are damaged or stressed from factors such as previous product use, adverse weather conditions (e.g. drought, frost or waterlogging), nutrient deficiency or pest attacks.

SIRENA is formulated specifically for use on oilseed rape and legumes. The addition of further adjuvants is not advised.

SIRENA should not be applied with pyrethroids to

flowering oilseed rape.

Ensure the sprayer is free from previous chemical residues that may harm the crop. Use of a detergent cleaner is advised before and after use.

Avoid spray drift on to neighbouring crops and field margins.

CROP RECOMMENDATIONS

Cereals

SIRENA is a broad spectrum fungicide with curative and protectant activity which can be used on all commercial varieties of winter and spring wheat, durum wheat, winter and spring barley, triticale and rye for disease control as summarised below (see table):

Time of application

Apply as soon as diseases start to develop in the crop and repeat as required.

Application at an early stage of mildew development (not more than 3% infection on any green leaf) will give moderate control. Where mildew has become established, SIRENA must be combined with a specific mildewicide to improve control and to help prevent the development of resistant strains.

To prevent the development of resistant strains to Septoria leaf blotch, SIRENA must be combined with an

	Winter wheat	Spring wheat	Durum wheat	Winter barley	Spring barley	Triticale	Rye
<i>Septoria tritici</i>	C	C	C			C	
Yellow rust	C	C	C	C	C	C	C
Brown rust	C	C	C	C	C	C	C
<i>Rhynchosporium</i>				R	R		R
Net blotch				R	R		
Powdery mildew	MC	MC	MC	MC	MC	MC	MC
Ear <i>Fusarium</i>	GR	GR	GR			GR	

C = full control

MC = moderate control

GR = good reduction

R = reduction

effective non cross-resistant fungicide.

For optimum results on yellow rust apply before any leaf has more than 1% infection or as a preventative treatment on susceptible varieties after the flag leaf has fully emerged (GS 39).

Good reduction of ear *Fusarium* may be achieved when applied between full ear emergence and anthesis complete (GS 69).

For control of brown rust treat susceptible varieties as soon as rust is seen and spray more resistant varieties before any of the top three leaves have more than 1-2% infection.

Spray as soon as net blotch is seen on any of the top three leaves. A further treatment will be necessary where disease is well established.

Rate of Application

1.5 L/ha

Oilseed rape

All varieties of oilseed rape may be treated.

Disease control

SIRENA provides control of *Alternaria*, and a reduction of phoma leaf spot, phoma stem canker (*Phoma lingam*) and light leaf spot.

	<i>Alternaria</i> spp	Phoma leaf spot & phoma stem canker (<i>Phoma lingam</i>)	Light leaf spot
Oilseed rape	Control	Reduction	Reduction

Time of application

Apply as soon as diseases start to develop, and repeat as required.

Rate of application

1.2 L/ha.

Crop height reduction

When applied to oilseed rape in the spring, SIRENA can provide plant growth regulation in the form of a

reduction in crop height.

Time of application

Apply during stem extension in the spring, once the oilseed rape crop is actively growing (GS 31-51)

Rate of application

1.2 L/ha

Combining peas, vining peas, field beans and lupins

All varieties of peas and field beans may be treated.

Consult processor before using on vining peas grown for processing.

Safety to lupins has not been established. If possible, a small area of the lupin crop should be treated before treating the whole crop.

Disease control

SIRENA can be used for the reduction of *Ascochyta* and *Mycosphaerella* species, the reduction of *Botrytis* and the control of rust on peas and beans.

	<i>Ascochyta</i>	<i>Mycosphaerella</i>	<i>Botrytis</i>	Rust
Combining peas	Reduction	Reduction	Reduction	Control
Vining peas	Reduction	Reduction	Reduction	Control
Field beans	-	-	-	Control

Qualified minor use recommendations

SIRENA can be used for the reduction of *Ascochyta*, the reduction of *Botrytis* and the control of rust on lupins.

	<i>Ascochyta</i>	<i>Mycosphaerella</i>	<i>Botrytis</i>	Rust
Lupins	Reduction	-	Reduction	Control

Time of application

	<i>Ascochyta</i>	<i>Mycosphaerella</i>	<i>Botrytis</i>	Rust
Combining peas	Start of flowering*	Start of flowering*	Mid flowering*	First sign of rust pustules*
Vining peas	Start of flowering*	Start of flowering*	Mid flowering*	First sign of rust pustules*

	<i>Ascochyta</i>	<i>Mycosphaerella</i>	<i>Botrytis</i>	Rust
Field beans	-	-	-	Start of petal fall*
Lupins	Start of petal fall*	-	Start of petal fall*	Start of petal fall*

* repeat 3-4 weeks later, if required.

Rate of application

1.2 L/ha

FOLLOWING CROPS

After treating a cereal, oilseed rape or legume crop with SIRENA, the crops listed below may be sown as a following crop: beans, clover, oilseed rape, ryegrass, cabbage, lettuce, onions, sugar beet, carrots, linseed, peas, sunflower, cereals, maize, potatoes.

The effects of SIRENA on other crops has not been assessed.

WATER VOLUMES

In cereals apply SIRENA in 200 to 300 L/ha water.

In oilseed rape and legumes apply SIRENA in 200 to 400 L/ha water.

Apply as a MEDIUM spray, as defined by BCPC. In dense crops use the higher volume to achieve adequate penetration and good coverage of the crop.

To ensure optimum spray coverage and minimize spray drift, adjust the spray boom to the appropriate height above the crop, according to guidance provided by the sprayer and/or nozzle manufacture.

Sprayers should be thoroughly cleaned out immediately after use.

Qualified approval

SIRENA may be applied in reduced water volumes as specified in the table below, although efficacy at this reduced volume has not been evaluated. Application of this product at reduced-volume is at user's risk with regard to biological efficacy.

Crop	Rate	Minimum water volume
Winter wheat, spring wheat, durum wheat, winter barley, spring barley, triticale, rye	1.5 L/ha	110 L/ha
Oilseed rape, peas, beans, lupins	1.2 L/ha	90 L/ha

MIXING AND APPLICATION

Three quarters fill the tank with water and start the agitation. To ensure thorough mixing of the product, invert the container several times before opening. Add the required quantity of SIRENA to the spray tank while re-circulating. Fill up the tank with water and continue agitation until spraying is completed.

On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add washings to spray tank at time of filling and dispose of container safely.

TANK CLEANING PROCEDURE

To avoid subsequent injury to crops other than cereals, all spraying equipment must be thoroughly cleaned after use. Rinse the tank three times with clean water and spray the further diluted rest onto the target crop.

RESISTANCE

SIRENA contains metconazole, 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 DMIs contact your agronomist or specialist advisor, and visit the FRAG-UK website.

Cereal powdery mildew strains with decreased sensitivity to triazoles are common in the UK. Where these occur or develop, SIRENA may not give satisfactory control.

For crop/pathogen situations where repeated spray applications are required, alternation or mixtures

with an effective non cross-resistant fungicide are recommended. Fungicide use does not replace the need for nonchemical cultural control methods e.g. resistant crop varieties, good agronomic practice, plant hygiene.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

SIRENA

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:




Weblink to specific data sheet on manufacturer's website:

www.belchim.co.uk/pdf/MSDS/Sirena_MSDS.pdf

Alternatively, contact your supplier.

DANGER



SIRENA - an emulsifiable concentrate containing 60 g/L metconazole

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing.
P331 Do NOT induce vomiting.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P501 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.

SP1 Do not contaminate water with the product or its container.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.