

SIRENA

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

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



DANGER

RISK AND SAFETY INFORMATION

Flammable liquid and vapour.

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

May cause respiratory irritation.

Suspected of damaging the unborn child.

Very toxic to aquatic life with long lasting effects.

Keep away from heat. — No smoking.

Wear protective gloves, eye protection, face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Do not contaminate water with the product or its container.

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

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

PCS no. 05408

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE AND PLANT GROWTH REGULATOR

Crops	Maximum individual dose (L/ ha)	Maximum total dose (L/ ha)	Latest time of application
Winter wheat, spring wheat, durum wheat, winter barley, spring barley, triticale and rye	1.5	3.0	Before early milk stage (GS 73)
Oilseed rape	1.2	2.4	10% of pods at final size

Other specific restrictions:

A minimum interval of 14 days must be observed between applications on oilseed rape.

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

This product must not be used alone for control of Septoria or powdery mildew.

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.

FOR PROFESSIONAL USE ONLY

PROTECT FROM FROST

SHAKE WELL BEFORE USE

For 24 hour emergency information contact Globachem n.v. Telephone: +32 11 78 57 17

**Registration holder:
GLOBACHEM NV**

Brustem Industriepark- Lichtenberglaan 2019
B-3800 Sint-Truiden - Belgium
Tel: +32 11 78 57 17 - Fax: +32 11 68 15 65
E-mail: globachem@globachem.com
Web: www.globachem.com

Contents:

2 – 5 – 10 – 20 litres e

Batch No: see bottle

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.

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

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.

DO NOT RE-USE CONTAINER 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. 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. 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:

	Wheat	Barley	Triticale	Rye
Septoria Leaf Blotch (<i>Mycosphaerella graminicola</i>)	MC	-	MC	-
Glume blotch (<i>Septoria nodorum</i>)	MC	-	MC	-
Yellow rust	C	C	C	C
Brown rust	C	C	C	C
<i>Rhynchosporium secalis</i> (leaf scald)	-	R	-	R
Net blotch	-	R	-	-
Powdery Mildew (<i>Blumeria graminis</i>)	MC	MC	MC	MC
Fusarium Ear blight	R	-	R	-

C = full control

MC = moderate control

R = reduction

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, the use of a specific mildewicide will improve control and help prevent the development of resistant strains.

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 spp</i>	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

FOLLOWING CROPS

After treating a cereal or oilseed rape 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
Cereals

Linseed
Maize

Peas
Potatoes

Sunflower

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 apply SIRENA in 200-400 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	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.

Cereal Powdery mildew strains with decreased sensitivity to triazoles are common. 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.