

# Caramba® 90

## MAPP 15524

An emulsifiable concentrate containing 90 g/litre metconazole. 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.

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:

**WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD)** when handling the concentrate.

**WEAR 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. **DO NOT ALLOW DIRECT SPRAY** from hand-held sprayers to fall within 1 metre of the top of the bank of a static or flowing water body. 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.

**DO NOT RE-USE CONTAINER** for any purpose  
**PROTECT FROM FROST.**  
**DO NOT STORE IN DIRECT SUNLIGHT**

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## UN 3082

Packing Group III Environmentally hazardous substance, liquid, N.O.S. (contains metconazole 9%)  
Marine Pollutant

This label is compliant with the CPA Voluntary Initiative Guidance



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# Caramba® 90

An emulsifiable concentrate containing 90 g/litre metconazole and diethylene glycol.



## WARNING:

**CAUSES SERIOUS EYE IRRITATION**  
**MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE**  
**SUSPECTED OF DAMAGING THE UNBORN CHILD**  
**TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.**  
DO NOT BREATHE VAPOURS.  
OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.  
WEAR PROTECTIVE GLOVES/CLOTHING.  
IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.  
GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL.  
COLLECT SPILLAGE.

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

This product is approved under the Plant Protection Product Regulations.

## IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE and PLANT GROWTH REGULATOR, as directed below:

Crop	Maximum Individual Dose	Maximum Total Dose Per Crop	Latest Time of Application
Winter wheat, Spring wheat, Durum wheat, Winter barley, Spring barley, Triticale and Rye	1.0 litre product/ha	2.0 litres product/ha	Up to and including GS 71 (caryopsis watery ripe stage)
Oilseed rape	0.8 litres product/ha	1.6 litres product/ha	10% of pods at final size
Combining peas, Vining peas, Field beans and Lupins	0.8 litres product/ha	1.6 litres product/ha	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).

**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.**



## 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.

Caramba 90 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. Caramba 90 can also be used on oilseed rape, field beans, combining and vining peas and lupins. When applied to oilseed rape in the spring, Caramba 90 can provide plant growth regulation in the form of a reduction in crop height.

### 1. 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.

Caramba 90 is formulated specifically for use on oilseed rape and legumes. The addition of further adjuvants is not advised.

Caramba 90 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.

### 2. Crop recommendations

#### 2.1 Cereals

Caramba 90 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:

	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		MC
Net blotch				R	R		
Powdery mildew	MC	MC	MC	MC	MC	MC	MC
Ear <i>Fusarium</i>	GR	GR	GR			GR	

C = full control

GR = good reduction

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**

1.0 l/ha

**2.2 Oilseed rape**

All varieties of oilseed rape may be treated.

**Disease control**

Caramba 90 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**

0.8 l/ha.

**Crop height reduction**

When applied to oilseed rape in the spring, Caramba 90 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**

0.8 l/ha.

**2.3 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**

Caramba 90 can be used for the reduction of *Ascochyta* and *Mycosphaerella* species, the reduction of *Botrytis* and the control of rust on peas.

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





**Qualified Minor Use Recommendations**

Caramba 90 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 Vining peas	Start of flowering*	Start of flowering*	Mid flowering*	First sign of rust pustules*
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**

0.8 l/ha.

**3. Resistance Management**

Caramba 90 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, Caramba 90 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 non-chemical cultural control methods e.g. resistant crop varieties, good agronomic practice, plant hygiene.

**4. Following Crops**

After treating a cereal, oilseed rape or legume crop with Caramba 90, 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 Caramba 90 on other crops has not been assessed.

**5. Mixing and Application**

**5.1 Mixing**

Never prepare more spray solution than is required.





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 Caramba 90 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.

## 5.2 Application

In cereals apply Caramba 90 in 200 to 300 l/ha water

In oilseed rape and legumes apply Caramba 90 in 200-400 l/ha water.

Apply as a MEDIUM spray, as defined by BCP. 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, in according to guidance provided by the sprayer and/or nozzle manufacture. Sprayers should be thoroughly cleaned out immediately after use

### Qualified approval

Caramba 90 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	1.0 litres per hectare	110 litres per hectare
Oilseed rape, Peas, Beans, Lupins	0.8 litres per hectare	90 litres per hectare

### **The following does not form part of the product label under the Plant Protection Products Regulations.**

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, 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; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.





**Section 6 of the Health and Safety at Work Act  
Additional Product Safety Information**

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted under the Control of Pesticides Regulations.

The information on this label is based on the best available information including data from test results.

## Safety Data Sheet

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



[http://www.agricentre.basf.co.uk/go/  
Caramba\\_90\\_sds](http://www.agricentre.basf.co.uk/go/Caramba_90_sds)

Alternatively, contact your supplier.

SPECIMEN

