

# metso

An Emulsifiable Concentrate (EC) formulation containing 60 g/L of Metaconazole. A fungicide for use on 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.

# 5L

UFI: S6XM-TADG-8R08-PEWX

## FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE FOR PROFESSIONAL USE ONLY

### SAFETY INFORMATION



### DANGER

- Flammable liquid and vapour.**
- May be fatal if swallowed and enters airways.**
- Causes skin irritation.**
- May cause an allergic skin reaction.**
- Causes serious eye damage.**
- May cause respiratory irritation.**
- Suspected of damaging the unborn child.**
- Very toxic to aquatic life.**
- Very toxic to aquatic life with long lasting effects.**

Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignitions sources.  
Ground and bond container and receiving equipment.  
Use explosion-proof (electrical/ventilating/lighting) equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash hands thoroughly after handling.  
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.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do so. Continue rinsing.  
Do not induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
Take off all contaminated clothing and wash it before use.  
In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
Collect spillage.  
Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
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.  
To protect aquatic organisms, respect an unsprayed buffer zone of 5 metres 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).  
**To avoid risks to human health and the environment, comply with the instructions for use.**

PCS No: 06266

### Safety Precautions

If exposed or if you feel unwell seek medical advice immediately (show the label where possible).  
No specific antidote is available. Treat symptomatically.  
In case of accident, call the 24-hour National Poisons Information Centre:  
Tel.: +353 (0)1 809 2566 or +353 (0) 1 837 9964.

**Batch no.:** See container

**Registration holder:** Sharda Cropchem España S.L.  
Edificio Atalayas Business Center,  
Carril Condomina nº 3, 12th Floor, 30006  
Murcia, Spain

**Phone no.:** +34 868 12 75 89

**Distributed by:** Sharda Cropchem España S.L.

**Emergency no.:** In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2566 or 01 809 2166 or 01 837 9964

**Operator protection**

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.

**Environmental protection**

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 of 5m to surface water bodies.

Direct spray away from water.

**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.

**General information**

**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.

Metso 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.

Metso can also be used on winter and spring oilseed rape, combining pea, field bean, lupin and vining pea. When applied to oilseed rape in the spring, Metso can provide plant growth regulation in the form of a reduction in crop height.

**Following crops**

After treating a cereal or oilseed rape crop with Metso, the following crops may be sown as a following crop: Beans, Clover, Oilseed rape, Ryegrass, Cabbage, Lettuce, Onions, Sugar beet, Carrots, Linseed, Peas, Sunflower, Cereals, Maize and Potatoes. The effects of Metso on other crops has not been assessed.

## Instructions for use

### FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crop	Max. single dose	Max. no. of applications	Max. total dose	Latest time of application
Winter wheat, spring wheat, durum wheat, winter barley, spring barley, rye & triticale	1.5 l/ha	-	3.0 L/ha	Before GS 73 (early milk stage)
Winter and spring oilseed rape	1.2 l/ha	-	2.4 l/ha	10% of pods at final size

### 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.

#### Specific restrictions

- Repeated application of DMI fungicides alone should not be used on the same crop in one season against risky pathogens (e.g. cereal powdery mildews, barley net blotch, scald) in areas of high disease pressure for that particular pathogen.
- Reduced rates of DMI's can contribute to accelerate the shift to less sensitive populations. It is critical to use effective rates of DMI's in order to ensure robust disease control and effective resistance management. DMI's must provide effective disease control and be used at manufacturers recommended rates.
- When used in mixture recommended effective rates of the SBI must be maintained. Split and reduced rate programmes, using multiple repeated applications at dose rates below manufacturer's recommendations, provide continuous selection pressure and accelerate the development of resistant populations, and therefore must not be used.
- To ensure good performance and particularly resistance management in situations of even low disease pressure it is essential to adhere to dosages and spray timings as recommended by manufacturers. Curative applications should be avoided. Application timing must be appropriate to all mix partners characteristics. Mixing with a non-cross resistant fungicide at effective dose rates contributes to more disease control and resistance management.
- The amine fungicides are effective non-cross resistant partner fungicides for DMI's on cereals for the control of pathogens included in the label recommendation of each respective product.

#### Other specific restrictions

- For professional use only.
- For use by tractor mounted/trailed horizontal sprayer only.
- 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.
- Metso is formulated specifically for use on cereals and oilseed rape.
- The addition of further adjuvants is not advised.
- Metso should not be applied with pyrethroids to oilseed rape at flowering.
- 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.
- 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.
- To protect birds, only one application is allowed on cereals before GS 29 (end of tillering).

#### Method of application

- Tractor mounted/trailed horizontal sprayer.

#### Cereals use notes

- For effective control Metso is best applied when disease starts to develop in the crop.
- 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).
- 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.
- Metso may be applied before early milk stage (GS 73).

#### Oilseed rape use notes:

- Reduction of light leaf spot, control of Alternaria, reduction of Phoma lingam (Leaf spot) when applied to oilseed rape in the spring, Metso can provide plant growth regulation in the form of a reduction in crop height.
- Apply as soon as diseases start to develop, and repeat as required.
- Apply during stem extension in the spring, once the oilseed rape crop is actively growing (GS 31-51).

**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 Metso 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.

**Application:**

- In cereals apply Metso in 200 to 300 l/ha water.
- In oilseed rape apply Metso 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.
- Metso 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 litres per hectare	110 litres per hectare
Oilseed rape	1.2 litres per hectare	90 litres per hectare

**Compatibility:**

- Metso should not be applied with pyrethroids to oilseed rape at flowering.
- All tank mixes should be used immediately after mixing.

**Resistance Management**

- Metso 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 Teagasc, your agronomist or specialist advisor, and visit the FRAC website.
- Cereal Powdery mildew strains with decreased sensitivity to triazoles are common in Ireland. Where these occur or develop, Metso 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.

Disease	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	R = reduction		MC = moderate control	

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

**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 and 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 and 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.

Sharda Cropchem España S.L.  
Edificio Atalayas Business Center  
Carril Condomina nº 3, Planta 12,  
30006 Murcia, Spain



**Sharda Cropchem**

SHARDA CROPICHEM LIMITED  
Domnic Holm 29<sup>th</sup> Road, Bandra (West)  
Mumbai - 400050, India, Tel. +39 02 66101029