bhima

An Emulsifiable Concentrate (EC) formulation containing 50 g/L bixafen, 100 g/L prothioconazole and 250 g/L spiroxamine for use as a fungicide for the control of stem-base, foliar and ear diseases in wheat, triticale, rye, barley and oats.

GROUP 7 FUNGICIDE
GROUP 3 FUNGICIDE
GROUP 5 FUNGICIDE

FOR PROFESSIONAL USE ONLY.

SAFETY INFORMATION

DANGER

Harmful if swallowed and inhaled.
Causes serious eye damage.
May cause respiratory irritation.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

Collect spillage.
Protect from sunlight.

Contains prothioconazole: May produce an allergic reaction.
Contains spiroxamine: May produce an allergic reaction.

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

PCS No. 07549

Batch no.:
Registration Holder: Sharda Cropchem España S.L., Edificio Atalayas Business Center, Carril Condomina nº 3, 12th Floor,
30006 Murcia, Spain
UFI Code : QRJY-XG8N-QA1S-WAJ0
Phone no. : +34 868 12 75 89
Emergency no.: In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964

SAFETY PRECAUTIONS

Operator protection
When using do not eat, drink or smoke.
Wash hands and exposed skin before meals and after work.
IF YOU FEEL UNWELL, seek medical advice (show the label where possible).
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 5 m to surface water bodies.
Storage and disposal
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 safely.
DO NOT RE-USE CONTAINER for any purpose.
Keep out of reach of children.
Keep away from food, drink and animal feedingstuffs.
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.
PROTECT FROM FROST.

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.
BHIMA is a mixture of a carboxamide, triazolinthione and spiroketolamine fungicides recommended for control of a wide range of diseases on winter and spring wheat, winter rye triticale, winter and spring barley and oats.

RATE OF USE

Crops	Maximum individual dose (L product/Ha)	Max. no. of applications	Maximum total dose (L product/Ha)	Latest time of application
Winter and spring wheat, triticale & winter rye	1.5	2 per crop	3.0	Before grain milky ripe stage (GS 73)
Winter and spring barley & spring and winter oats	1.5	2 per crop	3.0	Up to beginning of flowering (GS 61)
Other specific restrictions: A maximum of 2 foliar applications of product(s) containing SDHIs can be applied to any cereal crop.				

Method of application: Tractor mounted/trailed horizontal boom sprayer.
A spray pressure of 2-3 bar is recommended. Apply BHIMA in 100 – 300 litres of water per hectare.
Apply as a MEDIUM spray quality.

DISEASES CONTROLLED

Disease	Wheat	Triticale	Rye	Barley	Oats
Eyespot (*Oculimacula spp*)	R	R	R	-	-
Septoria Leaf Blotch (*Mycosphaerella graminicola*)	MC	MC	MC	-	-
Glume Blotch (*Septoria nodorum*)	MC	-	MC	-	-
Powdery Mildew (*Blumeria graminis*)	C	C	C	C	-
Yellow Rust	C	C	-	C	-
Brown Rust	C	C	C	C	-
Crown Rust	-	-	-	-	C
Tan Spot	C	-	-	-	-
Fusarium Ear blight	MC	MC	-	-	-
Sooty Moulds	R	R	-	-	-
Rhynchosporium Leaf Blotch	-	C	C	MC	-
Net Blotch (*Pyrenophora teres*)	-	-	-	MC	-
C= Control MC = Moderate Control R = Reduction					

Wheat: Eyespot, *Septoria* leaf blotch*, glume blotch*, powdery mildew, yellow rust, brown rust, tan spot, *Fusarium* ear blight* sooty moulds.
Triticale: Eyespot, *Septoria* leaf blotch*, powdery mildew, yellow rust, brown rust, *Fusarium* ear blight*, sooty moulds, *Rhynchosporium* leaf blotch.
Rye: Eyespot, *Septoria* leaf blotch*, glume blotch*, powdery mildew, brown rust and *Rhynchosporium* leaf blotch.
Barley: Powdery mildew, yellow rust, brown rust, *Rhynchosporium* leaf blotch* and net blotch*.
Oats: Crown rust.

* BHIMA will provide moderate control of these diseases

APPLICATION TIMING

The maximum number of applications should be 2 per crop.
Eyespot (*Oculimacula spp.*)
Spray in the spring at the first sign of disease, from when the leaf sheaths begin to become erect until the 2nd node is detectable (GS 30–32).
Septoria Leaf Blotch and Glume Blotch (*Mycosphaerella graminicola* and *Stagonospora nodorum*)
Apply before disease is established in the crop. To protect the upper leaves and ear apply BHIMA at full flag leaf emergence (GS 37) up to mid-flowering (GS 65). Where disease pressure remains high, application may be repeated.
Applications to upper leaves where *S. tritici* symptoms are present are likely to be less effective.
Powdery Mildew (*Blumeria graminis*)
Apply BHIMA at the first signs of disease. Where disease pressure remains high application may be repeated.
Yellow Rust (*Puccinia striiformis*)
Apply BHIMA at the first signs of disease. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.
Brown Rust (*Puccinia hordei* and *P. recondita*)
Apply BHIMA at the first signs of disease. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.
Crown Rust (*Puccinia coronata*)
Apply BHIMA at the first signs of disease. BHIMA controls crown rust in winter and spring oats. A second application may be made 2-3 weeks later if re-infection occurs. Applications made to established infections are likely to be less effective.
Tan Spot (*Pyrenophora tritici-repentis*)
Apply BHIMA at the first signs of disease in spring or early summer. Where disease pressure remains high the application may be repeated.
Ear Disease Complex
Apply BHIMA soon after ear emergence until the end of flowering (GS 59–69) for moderate control of *Fusarium* ear blight in wheat and reduction of sooty moulds. Control of ear diseases can result in cleaner, brighter ears.
Leaf Blotch (*Rhynchosporium secalis*)
Apply BHIMA in spring at the first signs of disease. For severe infections a second application may be necessary 2-3 weeks later.
Net Blotch (*Pyrenophora teres*)
Apply BHIMA at the first signs of disease in spring/early summer. For severe infections, a second application 2-3 weeks later will give most effective control when conditions remain favourable for disease development.

CAUTION: The possible development of disease strains resistant to BHIMA cannot be excluded or predicted. Where such resistant strains occur, BHIMA is unlikely to give satisfactory control.

RESISTANCE STRATEGY: BHIMA contains 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 FRAC website.
No more than two applications of SDH inhibitors must be applied to the same crop.
Repeated application of BHIMA alone should not be used on the same crop against a high risk pathogen such as cereal powdery mildew. Tank mixtures or alternation with fungicides having a different mode of action have been shown to protect against the development of resistant forms of disease.

CROP SPECIFIC INFORMATION

BHIMA may be used on all commercial varieties of wheat, barley, oats, triticale and rye.
Water volume: Apply BHIMA in 100–300 litres per hectare water. The higher spray volumes are recommended where the crop is dense or disease pressure / risk is high to ensure good penetration to the lower leaves and stem bases. Disease control may be compromised by reducing water volumes, where good spray coverage is difficult to achieve.
A spray pressure of 2–3 bar is recommended.
Spray quality: Apply as a MEDIUM spray quality (as defined by BCPC).
Latest Permitted Timing: In wheat, triticale and rye BHIMA may be applied at any stage before grain milky ripe stage. In barley and oats BHIMA may be applied at any stage up to the beginning of flowering.
Mixing: Thoroughly shake the pack before use.
Add the required quantity of BHIMA to the half-filled spray tank with the agitation system in operation and then fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing.
General: Sprayers should be thoroughly cleaned with water and detergent after use, and filters and jets checked for damage and blockages.
Boom height should be adjusted to ensure even coverage of the crop, particularly at later growth stages. The correct height is one at which the spray from alternate nozzles meets just above the crop. In dense crops, at later growth stages, higher water volumes should be used.

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.

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