

ml
800

700

600

500

400

300

200
ml

Opera®

NET VOLUME **1** Litre



ANGER



A suspo-emulsion of a protectant and systemic fungicide for the preventive control of diseases on Barley, Maize, Wheat, Soyabeans and Sugarcane.

FRAC FUNGICIDE GROUP CODES 11 & 3

Active ingredients:

Pyraclostrobin:
Epoxiconazole:

133g/L
50g/L

HAZARD STATEMENT

Causes skin irritation.
Harmful if inhaled.
Harmful if swallowed.
Very toxic to aquatic life.

PRECAUTIONARY STATEMENT

Wear protective gloves/clothing/eye protection.
Do not breathe mist or vapour.
Do not eat, drink or smoke when using this product.
Wash contaminated body parts thoroughly after handling.

Distributed by:

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Manufactured by:

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International Emergency Number:
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ZEMA REGISTRATION NUMBER: IP-PN:2468



DANGER



® Registered Trademark of BASF

81132039ZM1019

WARNINGS:

- Toxic if swallowed.
- Causes skin irritation.
- Harmful if inhaled.
- Suspected of causing cancer.
- May affect the unborn child. Suspected of affecting fertility.
- Very toxic to aquatic life with long lasting effects.
- Re-entry: do not enter treated field within 2 days after application, unless wearing protective clothing.
- Do not graze treated barley, maize, sweet corn or soya beans field or use folder.

Aerial application

- Notify and warn all inhabitants in the immediate area of the intended application and issue the necessary warnings.
- Do not spray over adjacent areas or water or permit spray to drift there.

ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS BETWEEN LAST APPLICATION AND HARVEST OR GRAZING.

CROP	DAYS
Barley, wheat	28
Maize and sweet corn	30
Soyabeans	30
Sugarcane	60

Although this remedy has been tested under large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic – and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence or resistance of the disease against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man and animal or for lack of performance of the remedy concerned due to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS :

- Do not inhale spray mist.
- Wear rubber gloves, boots and face shield when handling concentrate and whilst applying Opera®.
- Wash after accidental skin contact.
- Do not eat, drink or smoke whilst mixing and applying or before washing hands and face.

- Prevent spray drift onto crops, grazing, rivers and dams and areas not under treatment.
- Triple rinse empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsing's to the contents of the spray tank before destroying the container in the prescribed manner.
- Clean applicator (Sprayer) after the use and do not contaminate crops, grazing, rivers and dams with wash water.
- Destroy empty container and never use for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

FIRST AID TREATMENT:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If in eyes:	Wash eyes for at least 15 minutes under running water, with eyelids held open. Consult an eye specialist.
If swallowed:	Rinse mouth and then drink plenty of water. Do not induce vomiting, unless told so by a poison control centre or doctor. Seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
If on skin:	Wash skin with plenty of water. If irritation develops, seek medical attention.
If inhaled:	Keep patient calm, remove the patient to fresh air. Seek medical attention.

Note to Physician

Treat according to symptoms (decontamination, vital functions) no known specific antidote.

RESISTANCE MANAGEMENT:

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide Group Code or mode of action, in this case group 3 and group 11.
- Alternate or tank – mix with products from different fungicides group Codes or mode of action.
- Always follow strict the recommendations of the manufacturer.
- Integrate other control methods (chemical, cultural, biological into disease control programs and others). For more specific information, contact the registration holder and/or access/consult the homepage of Fungicide Resistance Action Committee (FRAC).

DIRECTION FOR USE: Use only as directed.

COMPATIBILITY:

The compatibility of Opera® with most Fungicides, Insecticides and Acaricides is not known and it is therefore however recommended to test it first on a small scale when used in spray.

MIXING INSTRUCTIONS:

Half fill the tank with clean water. Measure the required quantity of Opera® and pre mix this with at least 10L water. Add this mixture to the water in the spray tank while agitating the mixture. Fill the spray tank with water while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation during the whole spraying operation. Prepared spray mixture must not be left in the spray tank for any length of time, e.g overnight.

AERIAL APPLICATION:

Aerial application of Opera® may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft. Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A spray mixture volume of 40L per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower rate than recommended above.
- **Droplet coverage:** 25 to 35 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 to 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 meters above the target. Do not spray when aircraft dives, is in climb or when banking.
- **Use suitable atomising equipment** that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible relative span.
- **Position all the atomisers** within the inner 60 to 75% of the wingspan to prevent droplets from entering the wingtip vortices.
- **The difference in temperature** between the wet and dry bulb thermometers, of a whirling hygrometer should not exceed 8C.
- **Stop spraying** if the wind speed exceeds 15km/h.
- **Stop spraying** under turbulent, unstable and dry conditions during the heat of the day.
- **Spraying under temperature inversion conditions** (spraying in or above the inversion layer) and or high humidity conditions (relative humidity 80% and above) may lead to the following:
 - Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).

- Damage to other sensitive crops and or/ non target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a log book and kept for future reference.

All spray applications must be made with suitable equipment that is in good working order and correctly calibrated to give the desired coverage for that particular method of application.

APPLICATION RATES

CROP	DISEASE	DOSAGE	DIRECTIONS FOR APPLICATION
Barley	Leaf spot (<i>Rhynchosporium secalis</i>) Powdery mildew (<i>Blumeria graminis</i> f.sp . <i>hordei</i>) Leaf rust (<i>Puccinia hordei</i>)	0.75L/ha	Commence spraying latest at first sign of infection. Apply a second application 3- 4 weeks later if high disease pressure occurs. Do not exceed two applications per season. Group application: Aerial application: Apply in 40L water/ha
	Net blotch (<i>Pyrenophora teres</i>)	0.75L/ha	Apply preventively or latest at very first signs of disease presence: Repeat the application 3-4 weeks later. Under high disease pressure, a third application may be necessary in order to protect flag leaf and Leaf 1, with an effective fungicide from another class/mode of action. Do not exceed two applications per season. Ground application: Apply in 200- 400L water/ha Aerial application: Apply in 40L water/ha
Wheat	Brown rust (<i>Puccinia triticina</i>) Septoria Leaf blotch (<i>Zymoseptoria tritici</i>) Powdery mildew (<i>Blumeria graminis</i> f. sp. <i>tritici</i>)	0.75L/ha	Commence spraying when the first node is above ground at about Growth Stage31-33 (Zadocks scale) or at first sign of infection. Apply a second application 3 to 4 weeks later. If high disease pressure occurs apply a third application with fungicide from another class. Do not exceed two applications per season. Ground application: Applying 200-400L water/ha Aerial application: Apply in 40L water/ha

CROP	DISEASE	DOSAGE	DIRECTIONS FOR APPLICATION
Maize	Grey Leaf Spot (<i>Cercospora zeae- maydis</i>) Rust (<i>Puccinia sorghi</i>)	0.75L/ha	<p>Apply as part of a spray programme when disease symptoms are first observed on the basal 4 -5 leaves and before infection levels reach 5% on the lowest leaves. Apply a second application 3 to 4 weeks after the first application. Do not exceed 2 applications per season</p> <p>Ground application: Apply as full cover spray in 300-500L water/ha</p> <p>Hand-held high spinning disk applicator: As for recommendations above in at least 50- 70L water/ha</p> <p>Aerial application: As for recommendations above in 40Lwater /ha</p>
	Northern leaf blight (<i>Exserohilum turcicum</i>)	0.75L7ha	<p>Apply as part of a programme spray, when disease symptoms are first observed on the older leaves and before the infection moves up to the young leaves. Apply a second application 2-4 weeks after the first application. Use the shorter interval of 2 weeks when high disease pressure is expected due to weather conditions that favour disease and/ or when susceptible hybrids are cultivated. Do not exceed two applications per season.</p> <p>Ground application: Apply as full cover spray in 300-500L water /ha</p> <p>Hand held high spinning disk applicator: As for recommendation above at least 50-70L water/ha</p> <p>Aerial application: As for recommendations above in 40L water/ha</p>

CROP	DISEASE	DOSAGE	DIRECTIONS FOR APPLICATION
Soyabeans	Soya beans rust (<i>Phakopsora pachyrhizi</i>) Red Leaf Blotch (<i>Coniothyrium glycines</i>) Frog Eye (<i>Cerospora soja</i>)	0.5L/ha	<p>Spray preventively before first signs of disease development is noticed (normally at onset flowering) and repeat 21- 28 days later. Apply the shorter interval of 21 days when high disease pressure is expected due to weather conditions that favour disease development.</p> <p>Ground application: apply as full cover spray in 300-500L water/ha</p> <p>Aerial application: As for recommendations above in 40L water/ha</p>
	Sugarcane Brown rust (<i>Puccinia melanocephala</i>) Yellow rust (<i>Puccinia kuehnii</i>)	0.75L/ha	<p>Apply two applications of Opera per crop during the period when the sugarcane is actively growing (i.e. avoid the cold months May-July and dry months when there is no irrigation).</p> <p>First application should be done when the sugarcane has enough leaf area to take up the Opera at about knee high (at 4-6 leaf stage about 4-5 weeks after planting or harvest for ratoon crops)</p> <p>Second application must be done at "HIP" height (Tractor limit) , about 4 weeks after first application.</p> <p>Ground application: apply as full cover spray in 300-500L water/ha</p> <p>Aerial application: Apply in at least 40L water/ha</p>



We create chemistry

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ZEMA REGISTRATION NUMBER: IP-PN:2468

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