

Vivando®

Reg. No. L8352; N-AR 1049

Act No. 36 of 1947

**READ ATTACHED PACKAGE OR LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	50	FUNGICIDE
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A suspension concentrate, translaminar systemic, fungicide for the control of powdery mildew, on table and wine grapes.

'n Suspensiekonsentraat, translaminêre sistemiese swamdoder vir die beheer van witroes op tafel- en wyndruiwe.



Toxic to aquatic life with long lasting effects.
Dispose of contents and container to hazardous or special waste collection point.
If medical advice is needed, have product container or label at hand.

Active ingredients / Aktiewe bestanddele:

Metrafenone (benzophenones) 500 g/l

Registered by:

BASF South Africa (Pty) Ltd
Co. Reg. No. 66/10235/07
852 Sixteenth Road
P.O. Box 2801
Halfway House 1685
+27 11 203 2400

Geregistreeur deur:

BASF Suid-Afrika (Edms) Bpk
Mpy Reg. Nr 66/10235/07
852 Sestiende Laan
Posbus 2801
Halfweghuis 1685
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Batch No. & Date manufactured: Refer to details printed on container
Lotnommer & Datum vervaardig: Verwys na besonderhede gedruk op houer

EMERGENCY NUMBER / NOODNOMMER: +27 82 446 8946



® = Registered trademark of BASF / Geregistreeerde handelsmerk van BASF

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ENGLISH

WARNINGS

Hazard Statements

- Toxic to aquatic life with long lasting effects.

**WITHHOLDING PERIOD:
ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS, BETWEEN LAST APPLICATION
AND HARVEST:**

Table Grapes	28
Wine Grapes	56

- Handle with care.
- Poisonous if swallowed, inhaled or absorbed through the skin.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried, unless wearing protected clothing.
- Store away from food and feedstuffs and in a cool place.

Although this remedy has been tested under a 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 of 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, harm to man or 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

Precautionary Statements

- If medical advice is needed, have product container or label at hand.
 - Keep out of reach of children.
 - Read carefully and follow all instructions.
 - Collect spillage.
 - Dispose of contents and container to hazardous or special waste collection point.
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- Do not inhale spray mist or vapour.
 - Wear protective clothing, rubber gloves, gum boots and face shield, when handling concentrate.
 - Wash contaminated clothing daily.
 - Wash with soap and water after accidental skin contact.
 - Do not smoke, eat or drink during mixing and spraying operations or before washing hands and face thoroughly.
 - Do not contaminate drinking water, eating utensils, food or feed.

- Prevent spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean application equipment after use and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- **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 rinsings to the contents of the spray tank, before destroying the container in the prescribed manner.
- Destroy empty container by perforation and flattening and dispose of it in a safe way and never re-use for any other purpose.

RELEVANT SUBSTANCES

Hazardous ingredients According to UN GHS criteria	CAS number	Concentration (W/W)
Metrafenone (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)	220899-03-6	42 %
Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	< 5 %
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0,05 %
Propane-1,2-diol	57-55-6	< 10 %

FIRST AID TREATMENT

Remove contaminated clothing.

ON CONTACT WITH EYES:	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
ON INGESTION:	Immediately rinse mouth and then drink 200 – 300 ml water, seek medical attention.
ON SKIN CONTACT:	Wash thoroughly with soap and water.
IF INHALED:	Keep patient calm, remove to fresh air, seek medical attention.

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

RESISTANCE WARNING

Vivando® is a FRAC Group Code 50 fungicides. Any fungal population may contain individuals naturally resistant to Vivando® or benzophenone fungicides. The resistant individuals can eventually dominate the fungal population, if these fungicides are used repeatedly and exclusively in programmes. These resistant fungi may not be controlled by Vivando® and benzophenone fungicides.

- To delay fungicide resistance:
- Vivando® is restricted to three applications per season.
- Apply Vivando® always preventively before an infection occurs.
- Avoid exclusive repeated use of this fungicide.
- For tank mixing or alternation with products in other Fungicide Groups, refer to applicable individual product labels.
- Integrate other control methods (chemical, cultural, biological), into disease control programmes.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT THE REGISTRATION HOLDER, BASF SA (Pty) Ltd.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

Compatibility:

Vivando® is compatible with Acrobat® WG (L6526) and Polyram® (L5268).

Mixing instructions:

Half fill the tank with clean water. Measure the required quantity of Vivando® and pre-mix this with at least 10 l water. Add this mixture to the water in the spray tank while agitating the mixture. Fill the spray tank to the required volume 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.

Application recommendations

- Apply preventively, before an infection period occurs.
- Apply a maximum of three applications, per season.
- Vivando® forms a part of a spray programme, for the control of powdery mildew.
- For good resistance management, the other applications must be made with fungicides unrelated to Vivando® or benzophenones.

High volume applications for table- and wine grapes

Spray to the point of run-off, ensuring even coverage. Apply the following water volumes, depending on the leaf area present:

Growth stage	Water volume in l/ha
Shoots 2 – 5 cm long, before flowering	350 – 500
Blossom to pea-berry size	500 – 1 000
Pea-berry size up to harvest	1 000 – 1 500

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.

CROP	DISEASE	DOSAGE / 100 l WATER	DIRECTIONS FOR USE
TABLE and WINE GRAPES	Powdery mildew (<i>Uncinula necator</i>)	25 ml	Apply Vivando® as a preventive treatment commencing at 5 cm shoot length. Repeat at 10 – 14 day spray intervals Do not apply more than three applications per season and not later than the pea berry size. Further applications must be made with different Group Code Fungicides [e.g. Collis® (L7489) Cabrio® Top (L7429) Cantus® (L7444) Kumulus® (L2404) for powdery mildew control].

Collis®, Cabrio® Top, Cantus®, Kumulus®, Acrobat® WG and Polyram® are Registered Trademarks of BASF

AFRIKAANS

WAARSKUWINGS

Gevaarverklarings

- Giftig vir akwatiese organismes met langdurige effek

LAAT DIE VOLGENDE MINIMUM AANTAL DAE TOE, TUSSEN DIE LAASTE TOEDIENING EN OES:

Tafeldruiwe	28
Wyndruiwe	56

- Hanteer versigtig.
- Giftig indien ingesluk, ingeasem of deur die vel geabsorbeer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Herbetreding: Moenie behandelde area betree alvorens spuitneerslag droog is, tensy beskermende klere gedra word nie.
- Giftig vir visse en waterorganismes. Mag langdurige nadelige uitwerking in wateromgewing hê.
- Bêre weg van voedsel en voer in 'n koel plek.

Alhoewel hierdie middel onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan, deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie, en die voorkoms van weerstand van die siekte teen die betrokke middel beïnvloed kan word, die metode, tyd en akkuraatheid van toediening kan ook die werking en doeltreffendheid van die middel beïnvloed. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing nie, of vir nadelige effek op mens of dier nie, of vir onvoldoende prestasie van die betrokke middel weens die versuim van die gebruiker om etiketaanwysings na te kom nie, of weens toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMATREËLS

Voorsorgverklarings

- Indien mediese advies benodig word, hou die produkhouer of -etiket byderhand.
 - Hou buite bereik van kinders.
 - Lees sorgvuldig en volg alle instruksies.
 - Maak stortsel bymekaar.
 - Raak ontslae van inhoud en houer deur na 'n gevaarlike- of spesiale-afval insamelsplek te besorg.
- Moenie dampe of spuitnewel inasem nie.
 - Dra beskermende klere, rubberhandskoene, rubberstewels en gesigskerm wanneer konsentraat hanteer word.
 - Was besmette klere daaglik.
 - Was met seep en water indien dit per ongeluk op die vel beland.

- Moenie eet, rook of drink terwyl gemeng of gespuit word nie en alvorens die hande en gesig nie eers gewas is nie.
- Moenie drinkwater, eetgerei, voedsel of voer besoedel nie.
- Vermoedlik van spuitnewel na ander gewasse, weiveld, riviere, damme en areas nie onder behandeling nie.
- Maak toedieningsapparaat skoon na gebruik en raak van spoelwater ontslae waar dit nie gewasse, weiding, riviere en damme besoedel nie.
- Lê houters moet DRIE KEER UITGESPOEL word soos volg: Keer die lê houer om oor die spuitteknik of mengbak en dreineer vir minstens 30 sekondes nadat die vloeï tot 'n gedrup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houer. Gooi die spoelwater by die inhoud van die spuitteknik voordat die houer op die voorgeskrywe wyse vernietig word.
- Vernietig lê houer deur gate in te kap en plat te slaan en raak op 'n veilige wyse daarvan ontslae en moenie vir enige ander doel hergebruik nie.

RELEVANTE STOWWE

Gevaarlike bestanddele Volgens UN GHS Kriteria	CAS nommer	Konsentrasie (w/w)
Metrafenone (3-bromo-6-methoxy-2-methylphenyl) (2,3,4-trimethoxy-6-methylphenyl)	220899-03-6	42 %
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Propane-1,2-diol	57-55-6	< 10 %

NOODHULPBEHANDELING

Verwyder dadelik besmette klere

INDIEN IN DIE OË:	Spoel aangetaste oë vir ten minste 15 minute met lopende water, terwyl die ooglede oopgehou word.
INDIEN INGESLUK:	Spoel mond dadelik uit en drink 200 – 300 ml water, verkry mediese hulp.
INDIEN OP DIE VEL:	Was aangetaste area dadelik deeglik met seep en water.
INDIEN INGEASEM:	Hou pasiënt kalm en verwyder na vars lug. Verkry mediese hulp.

Behandeling: Behandel simptome (reinig, belangrikste funksies). Daar is geen spesifieke teenmiddel nie.

WAARSKUWING TEEN WEERSTAND

Vivando® is 'n FRAC Groepkode 50 swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit, wat 'n natuurlike weerstand teen Vivando® of ander bensofenoon-swamdoders het. Indien hierdie swamdoders in herhaaldelike en eksklusiewe programme aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur Vivando® of enige ander bensofenoon-swamdoders beheer word nie. Om weerstand teen swamdoders te vertrap:

- Vivando® word beperk tot drie toedienings per seisoen.
- Vivando® moet altyd voorkomend, voor die infeksieperiode toegedien word.
- Vermoed die eksklusiewe herhaaldelike gebruik van hierdie swamdoder.
- Raadpleeg toepaslike individuele produketikette wanneer daar afgewissel word met ander Groepkodes, of tenkingsels gemaak word.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies), in swamdoder programme.

VIR SPESIFIEKE INLIGTING OOR WEERSTANDSBESTUUR, KONTAK DIE REGISTRASIEHOUER, BASF SA (Edms) Bpk.

GEBRUIKSAANWYSINGS: GEbruik SLEGS SOOS VOORGESKRYF

Verenigbaarheid:

Vivando® is verenigbaar met Acrobat® WG (L6526) en Polyram® (L5268).

Menginstruksies:

Maak die spuittenk halfvol met skoon water. Meet die benodigde hoeveelheid Vivando® af en meng dit vooraf met minstens 10 l water. Voeg hierdie mengsel by die water in die spuittenk, terwyl die mengsel geroer word. Vul die spuittenk met water tot verlangde volume, terwyl daar nog steeds geroer word ten einde deeglike vermenging van die spuitmengsel te verseker, alvorens daar begin word met bespuiting. Handhaaf roering gedurende die hele spuitproses. Aangemaakte spuitmengsel moenie in die spuittenk gelaat word vir enige bepaalde tydperk, bv. oornag, nie.

Toedieningsaanbevelings

- Dien voorkomend, voor infeksie, toe.
- Dien 'n maksimum van drie toedienings per seisoen toe.
- Vivando® vorm deel van 'n spuitprogram, vir die beheer van poeieragtige meeldou, uit.
- Vir goeie weerstandbiedendheidsbestuur, moet die ander toedienings met swamdoders wat nie verwant is aan Vivando®, gemaak word nie.

Hoë-volume toedienings vir tafel- en wyndruive

Spuit tot die aflooppunt en verseker 'n egalige bedekking. Dien die volgende waterhoeveelhede toe afhangende van die aanwesige blaaroppervlakte:

Groei stadium	Watervolume in l/ha
Lote 2 – 5 cm lank, tot voor blom	350 – 500
Blom tot ertjiekorrelgrootte	500 – 1 000
Ertjiekorrelgrootte tot voor oes	1 000 – 1 500

Alle toedienings moet gemaak word met geskikte toerusting, wat in goeie werkende toestand en korrek gekalibreer is, ten einde die verlangde bedekking te gee vir die betrokke toedieningsmetode.

GEWAS	SIEKTE	DOSIS / 100 l WATER	GEbruIKSAANBEVELINGS
TAFEL en WYN- DRUIWE	Poeieragtige meeldou (<i>Uncinula necator</i>)	25 ml	Dien Vivando® voorkomend, vanaf 5 cm lootlengte toe. Herhaal met 10 – 14 dae spuitintervalle. Moenie meer as drie maal per seisoen toedien nie en nie later as die ertjiekorrel stadium nie. Verdere toedienings moet met ander Groepkode swamdoders gespuit word [bv. Collis® (L7489) Cabrio® Top (L7429) Cantus® (L7444) Kumulus (L2404) vir poeieragtige meeldou beheer].

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