

ICABOS 500 WG

Act No. 36 of 1947 / Wet Nr. 36 van 1947 • SA Reg. No. L10467 / NAM Reg. No. N-AR 1883

READ ATTACHED PACKAGED LEAFLET BEFORE USE • KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP

7

FUNGICIDE

PRODUCT INFO:

A water dispersible granular, systemic fungicide, for the control of various diseases on crops as listed.

PRODUK INFO:

'n Waterdispergeerbare korrel, sistemiese swamdoder, vir die beheer van verskeie siektes op gewasse soos gelys.



WARNING

HAZARD STATEMENTS:

Causes mild skin irritation.
Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Wear protective gloves, protective clothing, eye, and face protection.
Wash hands, face, and exposed skin thoroughly after handling. Do not touch eyes.

Active Ingredient / Aktiewe Bestanddeel

Boscalid (pyridine-carboxamide)

500 g/kg

Boscalid (piridien-karboksamied)

Net (ℓ) SEE CONTAINER

Registration Holder / Registrasiehouer



ICA International Chemicals (Pty) Ltd. • Reg. No. 2001/013319/07 • 28 Planken Street • Plankenbrug Industrial • STELLENBOSCH • 7600 • SOUTH AFRICA • Tel. +27-21 886 9812 • www.icaonline.co.za

Batch No.
Date of Manufacture

SEE
CONTAINER

Lot Nr.
Datum van Vervaardiging

In case of poisoning, call the following number: Human Poison Helpline +27-861 555 777 • Emergency number: Griffon Poison Information Centre +27-82 446 8946

UN No. / VN Nr. 3077

Group III

SAN-BC-001

ICABOS 500 WG

Act No. 36 of 1947

SA Reg. No. L10467 / NAM Reg. No. N-AR 1883

A water dispersible granular, systemic fungicide, for the control of various diseases on crops as listed:

- Control of Botrytis and Powdery mildew on Table and Wine Grapes
- Control of Rust and Alternaria leaf spot on Sunflowers

ACTIVE INGREDIENT:

Boscalid (pyridine-carboxamide) 500 g/kg

REGISTERED BY:

ICA International Chemicals (Pty) Ltd., Reg. No. 2001/013319/07
28 Planken Street • Plankenbrug Industrial • Stellenbosch • 7600 • South Africa
Tel. +27-21 886-9812 • www.icaonline.co.za

WARNINGS

Causes mild skin irritation
Causes serious eye irritation
Toxic to aquatic life with long lasting effects

WITHHOLDING PERIODS (Minimum number of days between last application and harvest):

- ▶ *Sunflowers* 28 Days
- ▶ *Table and Wine Grapes* 28 Days

Compliance with these withholding periods and application methods will ensure that residues do not exceed local maximum residue limits (MRL) but may not meet the import requirements of other countries. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, MRL and recommended waiting periods. Although **ICABOS 500 WG** is regarded as crop-safe on most of the important cultivars, this does not mean that a more sensitive cultivar might be available in future. **ICABOS 500 WG** must be tested on new cultivars prior to usage over big areas.

RE-ENTRY INTERVAL: Do not enter treated area for one day after application, unless wearing protective clothing. Wash protective clothing after use.

Although this remedy has been extensively 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, and the environment or harm to man/animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or 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

If medical advice is needed, have product container or label at hand.
Wash hands and face thoroughly after handling. Do not touch eyes.
Avoid release to the environment.
Wear protective gloves, protective clothing, eye and face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical help.
If skin irritation occurs: Get medical help.
Collect spillage.
Dispose of contents and container in accordance with national regulations.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Containers must be completely emptied before being disposed of. Invert and shake thoroughly into the applicator to ensure the container is empty. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Offer container for recycling or puncture and dispose of at authorised landfill (www.croplife.co.za). Do not use container for any other purpose.

RELEVANT SUBSTANCES:

Boscalid (Cas no: 188425-85-6) Aquatic Chronic Category 2, H411 (50 % w/w).
Sodium 1-naphthalene sulfonate (Cas no: 130-14-3) Eye Irritation Category 2, H319 (< 10 % w/w).
Sodium dodecyl sulfate (Cas no: 151-21-3) Acute Oral Toxicity Category 4, H302; Skin Irritation Category 2, H315; Eye Damage Category 1, H318 (< 10 % w/w).

FIRST AID TREATMENT

In case of accident or if you feel unwell seek medical advice immediately and show this LABEL where possible.

INHALATION:

- Remove the victim from immediate source of exposure. Move victim to fresh air, if it can be done safely, and keep comfortable.
- If victim's breathing has stopped, perform artificial respiration. Use a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if victim's breathing is difficult or irregular. Get medical help.

- SKIN:**
- Remove and isolate contaminated clothing, shoes, and leather goods and take a shower.
 - Rinse affected areas (skin) cautiously with non-abrasive soap or mild detergent and large amounts of running water. Wash contaminated clothing before reuse. Get medical help if irritation develops and persists.
- EYES:**
- Rinse eyes cautiously with clean running water for at least 15 minutes, while holding eyelids apart. Remove contact lenses after 5 minutes if present and easy to do. Continue rinsing while holding eyelids apart.
 - Seek medical help if irritation continues.
- INGESTION:**
- If swallowed, DO NOT induce vomiting, unless instructed to do so by poison control center or doctor. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person.
 - If vomiting does occur, keep on giving fluids. Get medical help.
- NOTE TO PHYSICIAN:**
- There is no specific antidote. All treatments should be based on observed signs and symptoms of distress in the patient.
- POTENTIAL HEALTH EFFECTS, ACUTE AND DELAYED:**
- No significant adverse effects expected. Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

RESISTANCE WARNING

For resistance management: ICABOS 500 WG is a FRAC group code (7) fungicide. Any fungal population may contain individuals naturally resistant to **ICABOS 500 WG** and other group code (7) fungicides. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **ICABOS 500 WG** or any other group code (7) fungicides.

To prevent or delay fungicide resistance:

- avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with registered products from different fungicide group codes,
- for tank mixing or alternation with products in other fungicide group codes, 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 supplier of this product.

ICABOS 500 WG should always be applied as a preventative spray. Alternate applications of **ICABOS 500 WG** with other registered fungicides from a different chemical class in the same programme with **ICABOS 500 WG**.

MODE OF ACTION

Boscalid is a pyridine carboxamide (FRAC group 7) broad-spectrum fungicide inhibiting the succinate-ubiquinone oxidoreductase system in Complex II of the mitochondrial electron transfer chain (ATP Production). This inhibits spore germination, germ tube elongation, appressoria formation and mycelial growth.

USE RESTRICTIONS

ICABOS 500 WG should always be applied as a preventative spray.

DIRECTIONS FOR USE – use only as directed

COMPATIBILITY:

Although **ICABOS 500 WG** is compatible with most agrochemicals, a physical compatibility test is always recommended prior to application.

MIXING INSTRUCTIONS:

Half fill the mixing tank with clean water. Pre-mix the required volume of **ICABOS 500 WG** in at least 10 liter water. Pre-mix any other product(s) to be tank mixed in the same way separately. While agitating the spray tank water, add the pre-mixed product(s) in the following sequence: wettable powders, water dispersible granules, suspension concentrates, emulsifying concentrates and soluble concentrates last. Top up the mixing tank with the required quantity clean water whilst agitating. Agitate constantly before and during application. **DO NOT** allow tank mixture to settle and do not leave the prepared spray mixture in the spray tank for any length of time, e.g., overnight. Clean all equipment thoroughly after use and dispose of wastewater without polluting the environment.

APPLICATION TABLE		
CROP and DISEASE	DOSAGE per 100 ℓ water (or as indicated)	REMARKS
SUNFLOWERS Rust (<i>Puccinia helianthi</i>) Alternaria leaf spot (<i>Alternaria alternata</i>)	300 g ICABOS 500 WG per ha Plus Registered azoxystrobin* containing product Plus A surfactant: A non-ionic adjuvant with spreading and penetrating properties	<ul style="list-style-type: none"> • Apply a preventative application before flowering when climatic conditions favour diseases development. <u>Climatic conditions favourable for diseases:</u> <ul style="list-style-type: none"> • Temperatures of 25 to 27 °C with continuous high humidity lasting for 3 – 4 days. • Apply in 300 ℓ water per hectare. • Ensure even coverage of the entire plant.

<p>TABLE and WINE GRAPES Botrytis (<i>Botrytis cinerea</i>)</p> <p>Powdery mildew (<i>Uncinula necator</i> anamorph <i>Oidium tuckeri</i>)</p>	<p>80 g ICABOS 500 WG</p> <p><u>Proposed Spray Volumes for Grapes</u></p> <p><u>Blossom to Pea-Berry Stage:</u> Wine grapes: 750 – 1000 ℓ spray mixture per ha Table grapes: 1000 – 1500 ℓ spray mixture per ha</p>	<ul style="list-style-type: none"> • Apply as a high volume, full cover spray, ensure thorough wetting of bunches. • Apply only one preventative application of ICABOS 500 WG in powdery mildew and Botrytis control spray programmes. • Apply between full flowering (when 50 % of flowerhoods have fallen) up to pea berry stage, before bunch closure. • ICABOS 500 WG will control BOTH powdery mildew and Botrytis. • Apply only one ICABOS 500 WG application per season. • For resistance management use fungicides from other FRAC groups for the rest of the Botrytis and powdery mildew spray programmes.
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*Only use registered products as registered in spray programmes

SABos002

ICABOS 500 WG

Wet Nr. 36 van 1947
SA Reg. Nr. L10467 / NAM Reg. Nr. N-AR 1883

'n Waterdispergeerbare korrel, sistemiese swamdoder, vir die beheer van verskeie siektes op gewasse soos gelys:

- Beheer van Roes en Alternaria blaarvlek op Sonneblomme
- Beheer van Botrytis en Poeieragtige meeldou op Tafel- en Wyndruiwe

AKTIEWE BESTANDEEL:

Boscalid (piridien-karboksamied) 500 g/kg

GEREGISTREER DEUR:

ICA International Chemicals (Pty) Ltd., Reg. Nr. 2001/013319/07
Plankenstraat 28 • Plankenbrug Industrieël • Stellenbosch • 7600 • Suid-Afrika
Tel. +27-21 886-9812 • www.icaonline.co.za

WAARSKUWINGS

Veroorsaak geringe velirritasie
Veroorsaak ernstige oogirritasie
Giftig vir waterlewende organismes met langdurige gevolge

ONTHOUDINGSPERIODES (Minimum aantal dae tussen laaste toediening en oes):

- ▶ *Sonneblomme* 28 Dae
- ▶ *Tafel- en Wyndruiwe* 28 Dae

Nakoming van hierdie onthoudingsperiodes en toedieningsmetodes sal verseker dat die plaaslike maksimum residu limiete (MRL) nie oorskry word nie, maar mag dalk nie voldoen aan die invoervereistes van ander lande nie. Indien die gewas wat behandel gaan word, bestem is vir uitvoer, skakel met die betrokke invoerder of uitvoerliggaam rakende die gebruik van hierdie produk, die MRL en aanbevole onthoudingsperiodes. Alhoewel **ICABOS 500 WG** as gewasveilig beskou word op die meeste belangrike kultivars, beteken dit nie dat 'n meer sensitiewe kultivar in die toekoms op die mark kan kom nie. **ICABOS 500 WG** moet eers op nuwe kultivars getoets word voordat dit oor groot areas aangewend word.

HERBETREDINGSINTERVAL: Moenie behandelde gebied binnegaan vir een dag na behandeling nie, tensy beskermende oorklere gedra word. Beskermende oorklere moet gewas word na gebruik.

Alhoewel hierdie middel omvattend 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 beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander produkte wat nie op die etiket aangedui is nie en die voorkoms van weerstand teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effekte op mens of dier of vir 'n gebrek aan doeltreffendheid, as gevolg van die versuim van die gebruiker om die etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMATREËLS

Indien mediese advies nodig word, hou die produkhouer of -etiket byderhand.
Hou buite bereik van kinders.
Lees sorgvuldig en volg alle instruksies.
Was hande en gesig deeglik na hantering. Moet nie aan oë raak nie.
Vermy vrystelling in die omgewing
Dra beskermende handskoene, beskermende klere, oog- en gesigbeskerming.
INDIEN IN OË: Spoel versigtig met water vir etlike minute. Verwyder kontaklense indien aanwesig en maklik om te verwyder. Hou aan met spoel.
Indien oogirritasie voortduur: Kry mediese hulp.
Indien velirritasie ontstaan: Kry mediese hulp.
Maak stortsel bymekaar.
Raak ontslae van inhoud en houer in ooreenstemming met nasionale regulasies.

SPOEL DIE LEË HOUER DRIE MAAL SOOS VOLG: Die houers moet heeltemal leeg wees voordat daarvan ontslae geraak kan word. Keer en skud die houer om oor 'n meng- of spuittenk en en maak seker dat die houer leeg is. Spoel die leë houer drie maal met skoon water gelyk aan 'n minimum van 30 % van die volume van die houer. Voeg spoelwater by die inhoud van die spuittenk. Bied houer aan vir herwinning of perforeer dit en raak daarvan ontslae by 'n gemagtigde opvulterrein (www.croplife.co.za). Moenie houer vir enige ander doel gebruik nie.

RELEVANTE STOWWE:

Boscalid (Cas no: 188425-85-6) Waterlewend Kronies Kategorie 2, H411 (50 % m/m).
Natriumnaftaleen-1-sulfonaat (Cas no: 130-14-3) Oogirritasie Kategorie 2, H319 (< 10 % m/m).
Natriumdodesielsulfaat (Cas no: 151-21-3) Akute Giftigheid Mondelings Kategorie 4, H302; Vel Irritasie Kategorie 2, H315; Oogskade Kategorie 1, H318 (< 10 % m/m).

NOODHULP BEHANDELING

In geval van 'n ongeluk of as jy onwel voel, verkry onmiddellik mediese advies en wys hierdie ETIKET waar moontlik

- INASEMING:**
- Neem die slagoffer weg van die onmiddellike bron van blootstelling. Verskuif die slagoffer na vars lug as dit veilig gedoen kan word en hou gemaklik. Indien die slagoffer ophou asemhaal, pas kunsmatige

	<p>asemhaling toe. Gebruik 'n sakmasker toegerus met 'n eenrigtingklep of ander geskikte mediese asemhalingstoestel.</p> <ul style="list-style-type: none"> • Dien suurstof toe as die slagoffer se asemhaling moeilik of onreëlmatig is en verkry mediese hulp.
VEL:	<ul style="list-style-type: none"> • Verwyder en isoleer besmette klere, skoene en leergoedere dadelik en stort. • Spoel aangetaste areas (vel) versigtig met nieskurende seep of sagwerkende wasmiddel en groot hoeveelhede lopende water. Was besmette klere voor hergebruik. Kry mediese hulp indien irritasie ontwikkel en voortduur.
OË:	<ul style="list-style-type: none"> • Spoel oë versigtig met skoon lopende water vir ten minste 15 minute terwyl die ooglede vanmekaar gehou word. Verwyder kontaklense na 5 minute indien aanwesig en maklik om te doen. Hou aan met spoel terwyl ooglede vanmekaar gehou word. • Kry mediese hulp indien irritasie voortduur.
OPNEMING:	<ul style="list-style-type: none"> • Indien ingesluk, MOENIE vomering induuseer nie, tensy 'n gifsentrum of dokter opdrag gee om dit te doen. • Laat die persoon slukkies water neem indien dit moontlik is om te sluk. Moet nooit iets per mond aan 'n bewustelose persoon gee nie. • Indien die persoon wel vomeer, hou aan om vloeistowwe te gee. Verkry mediese hulp.
NOTA AAN GENEESHEER:	<ul style="list-style-type: none"> • Daar is nie 'n spesifieke teenmiddel nie. Alle behandeling moet gebaseer word op waargenome tekens en simptome van nood by die pasiënt.
MOONTLIKE GESONDHEIDSGEVOLGE, AKUUT EN VERTRAAGD:	<ul style="list-style-type: none"> • Geen beduidende nadelige effekte word verwag nie. Gevolge van blootstelling (inaseming, opneming of velkontak) aan stof kan vertraag wees.

WEERSTANDSWAARSKUWING

Vir weerstandsbestuur: ICABOS 500 WG is 'n FRAC groepkode (7) swamdoder. Enige swampopulasie mag individue insluit wat 'n natuurlike weerstand teen **ICABOS 500 WG**, of enige ander FRAC groepkode (7) swamdoders het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **ICABOS 500 WG** of enige ander FRAC groepkode (7) swamdoders beheer word nie.

Om swamdoder weerstand te voorkom of te vertraag:

- vermy die eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groepkode. Wissel af met, of gebruik tenkingsels van produkte in verskillende swamdoder groepkodes,
- raadpleeg toepaslike individuele produketikette wanneer daar afgewissel word, of tenkingsels gemaak word, met produkte in ander swamdoder groepkodes,
- integreer ander beheermaatreëls (chemies, verbouing, biologies) in swamdoderprogramme.

Vir spesifieke inligting oor weerstandsbestuur kontak die plaaslike verskaffer van hierdie produk.

ICABOS 500 WG moet altyd as 'n voorkomende bespuiting toegedien word. Wissel **ICABOS 500 WG** toedienings in 'n spuitprogram af met geregistreerde swamdoders van ander groepkodes.

WERKINGSWYSE

Boscalid is 'n piridien-karboksamied (FRAC-groep 7) breë spektrum swamdoder wat die suksinaat-ubikinoon oksidoreduktase sisteem in kompleks II van die mitochondriale elektronoordragketting (ATP Produksie) inhibeer. Laasgenoemde inhibeer spoorontkieming, die verlenging van die kiembuis, appressorium ontwikkeling en miselium ontwikkeling.

GEBRUIKSBEPERKINGS

ICABOS 500 WG moet altyd as 'n voorkomende bespuiting toegedien word.

GEBRUIKSAANWYSINGS – gebruik soos aangedui

VERENIGBAARHEID:

Hoewel **ICABOS 500 WG** verenigbaar is met meeste landbouchemiesemiddels word 'n fisiese mengbaarheidstoets altyd voor gebruik aanbeveel.

MENGINSTRUKSIES:

Vul die spuitenk met skoon water tot halfvol. Meet die hoeveelheid **ICABOS 500 WG** wat benodig word af, en meng dit vooraf met minstens 10 liter water. Meng enige ander produk(te) wat in die tenkingsel moet kom afsonderlik en op dieselfde wyse as laasgenoemde. Terwyl mengtenk geroer word voeg die vooraf gemengde produkte in die volgende volgorde by: benatbare poeiers, wateroplosbare korrels, suspensie konsentrate, emulsifiseerde konsentrate en oplosbare konsentrate laaste. Vul mengtenk met skoon water tot by verlangde vlak terwyl voortdurend geroer word. Roer mengsel deeglik voor en deurgaans tydens toediening. Aangemaakte spuitmengsel **MOENIE** in spuitenk gelaat word vir onbepaalde tyd, bv. oornag, sonder dat dit nie deurgaans geroer word nie. Maak alle toerusting deeglik skoon na gebruik en gooi afvalwater weg sonder om die omgewing te besoedel.

TOEDIENINGSTABEL		
GEWAS en SIEKTE	DOSIS per 100 ℓ (of soos aangedui)	OPMERKINGS
SONNEBLOMME Roes <i>(Puccinia helianthi)</i> Alternaria blaarvlek <i>(Alternaria alternata)</i>	300 g ICABOS 500 WG per ha Plus Geregistreerde asoksistrobien* bevattende produk Plus 'n Benatter: Nie-ioniese bevorderingsmiddel met verspreidings- en penetreer eienskappe	<ul style="list-style-type: none"> • Dien 'n voorkomende aanwending voor blom toe, indien klimaatstoestande die ontwikkeling van die siektes bevoordeel. <u>Klimaatstoestande gunstig vir siektes:</u> <ul style="list-style-type: none"> • Temperature van 25 tot 27 °C met hoë humiditeit vir 3 – 4 dae. • Dien toe in 300 ℓ water per hektaar. • Verseker eweredige bedekking van die hele plant.
TAFEL- en WYNDRUIWE Botrytis <i>(Botrytis cinerea)</i> Poeieragtige meeldou <i>(Uncinula necator anamorfo</i> <i>Oidium tuckeri)</i>	80 g ICABOS 500 WG <u>Voorgestelde Smit Volumens vir Wingerd</u> Blom- tot Ertjekorrelstadium: Wyndruiwe: 750 – 1000 ℓ spuitmengsel per ha Tafeldruiwe: 1000 – 1500 ℓ spuitmengsel per ha	<ul style="list-style-type: none"> • Dien toe as 'n hoë volume voldekbepuiting. Verseker deeglike benatting van trosse. • Dien ICABOS 500 WG slegs as 'n ENKEL voorkomende bespuiting in poeieragtige meeldou en Botrytis spuitprogramme toe. • Dien toe tussen volblom (50 % blomblaarval) tot ertjekorrelstadium, maar voor die trosse toemaak. • ICABOS 500 WG sal BEIDE poeieragtige meeldou en Botrytis beheer. • Dien ICABOS 500 WG slegs eenmalig toe in 'n seisoen. • Vir die bestuur van weerstand, gebruik swamdoders van ander FRAC groepe in Botrytis asook poeieragtige meeldou spuitprogramme.

*Gebruik slegs geregistreerde produkte in spuitprogramme.

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