

IMAZACURE 500 EC

Act No. 36 of 1947 / Wet Nr. 36 van 1947
SA Reg. No. L7927 / NAM Reg. No. N-AR 1992 / BWA Reg. No. W1301631

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

GROUP

3

FUNGICIDE

PRODUCT INFO:

An emulsifiable concentrate, fungicide for control of disease on crops as indicated.

PRODUK INFO:

’n Emulgeerbare konsentraat swamdoder vir die beheer van siektes op gewasse soos aangedui.

HAZARD STATEMENTS:

Harmful if swallowed
May be harmful in contact with skin
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage
May be harmful if inhaled
Suspected of causing cancer
Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

Wear protective gloves, protective clothing, eye and face protection.
Avoid breathing spray.



DANGER

Active Ingredient / Aktiewe Bestanddeel

Imazalil (imidazole) 500 g/ℓ Imasalil (imidasool)

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. SEE Lot Nr.
Date of Manufacture CONTAINER 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

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WARNINGS

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Suspected of causing cancer
Very toxic to aquatic life with long lasting effects

WITHHOLDING PERIODS (Minimum number of days between last application and harvest): Not applicable for postharvest use.

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 withholding periods. Although **ImazaCure 500 EC** 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. **ImazaCure 500 EC** must be tested on new cultivars prior to usage.

RE-ENTRY INTERVAL: Do not handle wet fruit without gloves.

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 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.
Obtain, read, and follow all safety instructions before use.
Avoid breathing mist and spray.
Wash hands and exposed skin thoroughly after handling. Do not touch eyes.
Do not eat, drink, or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves, protective clothing, eye and face protection.
IF SWALLOWED: Rinse mouth. Get medical help.
IF ON SKIN: Wash with plenty of soap and water. Get medical help.
IF INHALED: Get medical help.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
If exposed or concerned, get medical advice.
For specific treatment, see first aid measures on this label.
If skin irritation or rash occurs: Get medical help.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store locked up.
Dispose of contents and container in accordance with national regulations.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to a drip. 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 bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

RELEVANT SUBSTANCES:

Imazalil (Cas no. 35554-44-0) Acute Oral Toxicity Category 4, H302; Acute Inhalation Toxicity Category 4, H332; Eye Damage Category 1, H318; Skin Sensitization Category 1, H317; Carcinogenicity Category 2, H351; Aquatic Chronic Category 1, H410 (50 % w/v).
Hexylene Glycol (Cas no. 70880-56-7) Skin Irritation Category 2, H315; Eye Irritation Category 2, H319 (35 – 50 % w/v).

FIRST AID MEASURES

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. DO NOT perform mouth-to-mouth resuscitation if victim ingested or inhaled the substance; wash face and mouth before giving 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 immediately and take a shower. Rinse affected areas (skin) immediately 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 IMMEDIATELY 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. Rinse mouth and 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:	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Suspected to cause cancer.

RESISTANCE WARNING

For resistance management, **ImazaCure 500 EC** consists of a group code (3) (Demethylation Inhibitors) fungicide. Any fungal population may contain individuals naturally resistant to **ImazaCure 500 EC** and other group code (3) fungicides. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **ImazaCure 500 EC** or any other group code (3) fungicides.

To 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 individual product labels,
- integrate other control methods (chemical, cultural, biological) into disease control programmes.

MODE OF ACTION

Imazalil disrupts fungal membrane function. Targeting cell membrane integrity by inhibiting C14 demethylation during sterol formation. Systemic with curative and protective properties.

USE RESTRICTIONS

ImazaCure 500 EC *does not mix easily with cold water or cold water-based waxes.*

First mix ImazaCure 500 EC thoroughly with ± 500 mℓ warm water (± 40 °C) before adding to rest of the water or wax in the applicator.

Refer to **DIRECTIONS FOR USE** for more information.

DIRECTIONS FOR USE – use only as directed

COMPATIBILITY:

ImazaCure 500 EC is compatible with citrus fruit waxes. The compatibility of **ImazaCure 500 EC** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. A physical compatibility test must always be performed before such a tank mixture is made.

APPLICATION TABLE		
CROP and DISEASE	DOSAGE	REMARKS
CITRUS Postharvest decay caused by green mould (<i>Penicillium digitatum</i>) and blue mould (<i>Penicillium italicum</i>)	LOW VOLUME WATER APPLICATION 50 mℓ in 25 ℓ water (1000 ppm imazalil)	NON-RECOVERY WATER SPRAY-ON AND BRUSH-ON APPLICATION: Rinse and sanitise fruit according to prescribed procedure with Sporekill® (L7115) or chlorinated water before application of ImazaCure 500 EC . Apply to freshly cleaned citrus immediately prior to waxing. The 25 litres of mixture should be used to treat a maximum of 17 000 kg of citrus fruit. This treatment will also result in good sporulation control.
Postharvest sporulation suppression of green and blue mould (<i>Penicillium</i> spp.)	LOW VOLUME WAX APPLICATION 150 mℓ in 25 ℓ wax (3000 ppm imazalil)	WAX APPLICATION: After dilution of ImazaCure 500 EC in wax, stir mixture thoroughly for at least 15 minutes with mixing device.
	LOW VOLUME WAX APPLICATION AFTER AN IMAZALIL WATER TREATMENT 100 mℓ in 25 ℓ wax (2000 ppm imazalil)	ImazaCure 500 EC DOES NOT mix easily with cold water or cold water-based waxes. Since large droplets of undiluted ImazaCure 500 EC can cause serious burns to citrus it is necessary to first mix ImazaCure 500 EC thoroughly with ± 500 mℓ warm water (± 40 °C) before added to rest of water or wax in the applicator. The resulting mixture must be agitated constantly.
CUCURBITS [butternuts, cantaloupes, melons, muskmelons, watermelon, pumpkins and squashes (summer and winter squash)]: Stem-end decay caused by <i>Penicillium</i> spp.	1,5 mℓ in 10 ℓ water	Apply with a sponge to the stem-end of fruit directly after harvest. Only treat 10 cm ² of fruit surface. Care must be taken that the fruit-stem is sufficiently wetted and that a bigger area of the fruit is not treated. Treated fruit must be dry before packing.

Sporekill® (Reg. No. L7115, Act 36 of 1947) is a registered product of ICA International Chemicals.

ImazaCure 500 EC

Wet Nr. 36 van 1947

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'n Emulgeerbare konsentraat swamdoder vir die beheer van siektes op gewasse soos aangedui.

AKTIEWE BESTANDDEEL:

Imasalil (imidasool) 500 g/ℓ

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

Skadelik indien ingesluk
Moontlik skadelik in aanraking met vel
Veroorsaak velirritasie
Mag allergiese velreaksie veroorsaak
Veroorsaak ernstige oogskade
Mag skadelik wees indien ingeasem
Vermoede dat dit kanker veroorsaak
Baie giftig vir waterlewende organismes met langdurige gevolge

ONTHOUDINGSPERIODES (Minimum aantal dae tussen laaste toediening en oes): Nie van toepassing vir na-oes gebruik nie.

Nakoming van hierdie onthoudingsperiodes en toediening instruksies sal verseker dat die plaaslike maksimum residu limiete (MRL) nie oorskry word nie, maar mag dalk nie voldoen aan die invoereistes 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 **ImazaCure 500 EC** 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. **ImazaCure 500 EC** moet voor gebruik op nuwe kultivars getoets word.

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 benodig word, hou die produkhouer of -etiket byderhand.
Hou buite bereik van kinders.
Lees sorgvuldig en volg alle instruksies.
Verkry, lees en volg alle veiligheidsinstruksies voor gebruik.
Vermy inaseming van stuifsel en spuitstof.
Was hande en blootgestelde vel deeglik na hantering. Moet nie aan oë raak nie.
Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie.
Besoedelde werksklere moet nie buite die werksplek toegelaat word nie.
Vermy vrystelling in die omgewing.
Dra beskermende handskoene, beskermende klere, oog- en gesigbeskerming.
INDIEN INGESLUK: Spoel mond uit. Kry mediese hulp.
INDIEN OP VEL: Was met baie seep en water. Kry mediese hulp.
INDIEN INGEASEM: Kry mediese hulp.
INDIEN IN OË: Spoel onmiddellik met water vir etlike minute. Verwyder kontaklense, indien aanwesig en maklik om te verwyder. Hou aan met spoel en verkry mediese noodhulp.
Indien blootgestel of besorg, verkry mediese advies.
Vir spesifieke behandeling sien noodhulp instruksies op hierdie etiket.
Indien velirritasie of uitslag ontstaan: Kry mediese hulp.
Trek alle besoedelde klere uit en was dit voor hergebruik.
Maak stortsel bymekaar.
Berg agter slot en grendel.
Raak ontslae van inhoud en houer in ooreenstemming met nasionale regulasies.

SPOEL DIE LEË HOUER DRIE MAAL SOOS VOLG: Keer die leë houer om oor 'n meng- of spuitenk en laat vir ten minste 30 sekondes leegloop totdat die vloei stadiger word tot 'n gedrup. 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 spuitenk. Bied houer aan vir herwinning of perforeer dit en raak daarvan ontslae by 'n gemagtigde opvulterrein (www.croplife.co.za). Moenie die houer begrawe, verbrand of aan enige ander partye skenk wat dit as houer vir voedsel of drinkgoed mag gebruik nie.

RELEVANTE STOWWE:

Imasalil (Cas no: 35554-44-0) Akute Giftigheid Mondelings Kategorie 3, H301; Akute Giftigheid Inaseming Kategorie 4, H332; Ernstige Oogskade Kategorie 1, H318; Karsinogeen Kategorie 2, H351; Waterlewend Kroniese Kategorie 1, H410 (50 % m/v).

Heksileenglikol (Cas no. 70880-56-7) Velirritasie Kategorie 2, H315; Ernstige Oogirritasie Kategorie 2, H319 (35 – 50 % m/v).

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 asemhaling toe. MOENIE mond-tot-mond-asemhaling toepas indien die slagoffer die stof opgeneem of ingeasem het nie; was gesig en mond voordat kunsmatige asemhaling toegepas word. Gebruik 'n sakmasker toegegerus met 'n eenrigtingklep of ander geskikte mediese asemhalingtoestel. Dien suurstof toe as die slagoffer se asemhaling moeilik of onreëlmatig is. Kry mediese hulp.
VEL:	Verwyder en isoleer besmette klere, skoene en leergoedere dadelik en stort. Spoel aangetaste areas (vel) dadelik 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:	Spoel oë ONMIDDELLIK 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:	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 noodhulp.
NOTA AAN GENEESHEER:	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:	Gevolge van blootstelling (inaseming, opneming of velkontak) aan stof kan vertraag wees. Vermoede dat dit kanker veroorsaak.

WEERSTANDSWAARSKUWING

Vir weerstandsbestuur, **ImazaCure 500 EC** is 'n groepkode (3) (Demetieleringsinhibeerder) swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen **ImazaCure 500 EC** of enige ander groepkode (3) swamdoders het. Indien hierdie swamdoder herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **ImazaCure 500 EC** of enige ander groepkode (3) swamdoders beheer word nie.

Om weerstand teen swamdoders te vertraag:

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

WERKINGSWYSE

Imasalil ontwig die swammembraan funksie. Dit teiken die selmembraanintegriteit deur C14-demetielering tydens sterolvorming te inhibeer. Imasalil is sistemies met genesende en beskermende eienskappe.

GEBRUIKSBEPERKINGS

ImazaCure 500 EC menq nie maklik met koue water of koue water-basis sitruswakse nie.

Menq ImazaCure 500 EC eers deeglik met ± 500 ml warm water (± 40 °C) voordat dit by die res van die water of waks in die toediener gevoeg word.

Verwys na **GEBRUIKSAANWYSINGS** vir meer inligting.

GEBRUIKSAANWYSINGS – gebruik slegs soos aangedui

VERENIGBAARHEID:

ImazaCure 500 EC is verenigbaar met sitruswaks. Die verenigbaarheid van **ImazaCure 500 EC** met ander produkte word bepaal deur die formulering van die onderskeie produkte asook die kwaliteit van die spuitwater wat gebruik word. 'n Fisiese verenigbaarheidstoets moet altyd gedoen word voordat produkte vermeng en toegedien word.

TOEDIENINGSTABEL		
GEWAS en SIEKTE	DOSIS	OPMERKINGS
PAMPOENGEWASSE [botterskorsies, pampoene en murgpampoene, spanspekgroep en waatlemoene] Stingel-end-bederf veroorsaak deur <i>Penicillium</i> spp.	1,5 ml in 10 l water	Dien toe met 'n spons aan die stingel-end kant van die vrugte direk na-oes. Behandel slegs 10 cm ² van die vrug oppervlak. Sorg moet gedra word dat vrug-stingel voldoende benat word, en dat 'n groter deel van die vrug nie behandel word nie. Behandelde vrugte moet droog wees voor verpakking.
SITRUS Na-oes bederf veroorsaak deur groenskimmel (<i>Penicillium digitatum</i>) en blouskimmel (<i>Penicillium italicum</i>)	LAE VOLUME WATER AANWENDING 50 ml in 25 l water (1000 dpm imasalil)	ONHERWINBARE SPROEI OF BORSEL TOEDIENING: Spoel en ontsmet vrugte deeglik volgens voorgeskrewe prosedure met Sporekill® (L7115) of gechlloreerde water voor ImazaCure 500 EC toediening. Dien toe op skoon gewaste sitrusvrugte onmiddellik voor vrugte gewaks word. Die 25 liter mengsel moet gebruik word om 'n maksimum van 17 000 kg sitrusvrugte te behandel. Hierdie behandeling sal ook goeie sporulasie beheer tot gevolg hê.
Na-oes sporulasie onderdrukking van groen- en blouskimmel (<i>Penicillium</i> spp.)	LAE VOLUME WAKS AANWENDING 150 ml in 25 l waks (3000 dpm imasalil)	WAKS AANWENDING: Na die verdunning van ImazaCure 500 EC in waks, meng deeglik vir minstens 15 minute met mengapparaat. ImazaCure 500 EC meng NIE maklik met koue water of koue water-basis sitruswakse NIE. Aangesien groot druppels of onverdunde ImazaCure 500

	<p>LAE VOLUME WAKS AANWENDING NA IMASALIL WATER BEHANDELING 100 mℓ in 25 ℓ waks (2000 dpm imasalil)</p>	<p>EC op sitrusvrugte ernstige brandskade kan veroorsaak, is dit nodig om ImazaCure 500 EC eers deeglik met ± 500 mℓ warm water (± 40 °C) te meng voordat dit by die res van die water of waks in die toediener gevoeg word. Na byvoeging moet die mengsel konstant gemeng word.</p>
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SANB-IZO50-008