

ICA PROCHLORAZ 450 EC

Act No. 36 of 1947 / Wet Nr. 36 van 1947 SA Reg. No. L8478

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

GROUP

3

FUNGICIDE

PRODUCT INFO: PRODUK INFO:

An emulsifiable concentrate fungicide for the control of diseases on crops as listed.

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



DANGER

HAZARD STATEMENTS:

Flammable liquid and vapour.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
May be harmful in contact with skin.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
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

Prochloraz (imidazole)

450 g/l

Prochloras (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



What is
GHS?

Batch No.
Date of Manufacture
Expiry Date

SEE
CONTAINER

Lot Nr.
Datum van Vervaardiging
Vervaldatum

**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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May be harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Causes serious eye damage
May cause damage to organs through prolonged or repeated exposure
Very toxic to aquatic life with long lasting effects

WITHHOLDING PERIODS (Minimum number of days between last application and harvesting or grazing / feeding):

- * Barley and Wheat (*do not graze barley and wheat*) 42 Days
- * Mangoes (*orchard application*) *Do not apply after 100 % petal drop*

Compliance with these withholding periods and below 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, maximum residue limits and recommended withholding periods. Although **ICA PROCHLORAZ 450 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. **ICA PROCHLORAZ 450 EC** must be tested on new cultivars prior to usage over big areas.

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.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof [electrical, ventilating, lighting] equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Do not breathe mist/vapours/spray.
Wash hands, face and exposed skin thoroughly after handling. Do not touch eyes.
Do not eat, drink, or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye and face protection.
IF SWALLOWED: Get emergency medical help immediately. Do not induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with soap and water or take a shower.
If skin irritation occurs: Get medical help.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.
Get medical help if you feel unwell.
For specific treatment, see first aid measures on this label.

In case of fire: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide CO₂ to extinguish the fire.

Collect spillage.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents and container in accordance with national regulations.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert empty container over mix or spray tank and allow draining for at least 30 seconds until flow has slowed 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:

Prochloraz (Cas no: 67747-09-5) Acute Oral Toxicity Category 4, H302; Aquatic Acute Category 1, H400; Aquatic Chronic Category 1, H410 (45 % w/v).

2-Butoxyethanol (Cas no: 111-76-2) Acute Oral Toxicity Category 4, H302; Acute Inhalation Toxicity Category 4, H332; Skin Irritation Category 2, H315; Eye Irritation Category 2, H319 (10 – 30 % w/v).

Benzenesulfonic acid (Cas no: 90194-26-6) Skin Irritation Category 2, H315; Eye Damage Category 1, H318 (< 10 % w/v).

2-methylpropan-1-ol (iso-butanol) (Cas no: 78-83-1) Flammable Liquid Category 3, H226; Skin Irritation Category 2, H315; Eye Damage Category 1, H318; STOT SE Category 3, H335 (< 10 % w/v).

Solvent Naphtha (petroleum) (Cas no: 64742-94-5) Aspiration Hazard Category 1, H304 (30 – 50 % w/v).

Ethanediol (ethylene glycol) (Cas no: 107-21-1) Acute Oral Toxicity Category 4, H302; STOT RE Category 2, H373 (< 10 % 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. In case of burns, IMMEDIATELY cool affected skin for as long as possible with cold water.
- 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. 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:**
- Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

RESISTANCE WARNING

For resistance management: ICA PROCHLORAZ 450 EC is a group code (3) fungicide. Any fungal population may contain individuals naturally resistant to ICA PROCHLORAZ 450 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 ICA PROCHLORAZ 450 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 chemical class codes,
- ▶ for tank mixing or alternation with products in other chemical class 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.

MODE OF ACTION

Prochloraz belongs to the imidazole class of fungicides (FRAC group 3). Imidazoles alter the cell membrane permeability of susceptible yeast and fungi by blocking the synthesis of ergosterol (*demethylation of lanosterol is inhibited*), the primary cell sterol of fungi.

DIRECTIONS FOR USE – use only as directed

COMPATIBILITY:

Compatible with 2,4-D (sodium salt) and Thiabendazole.

MIXING INSTRUCTIONS:

Half fill the dip/spray tank with clean water. Shake the **ICA PROCHLORAZ 450 EC** container thoroughly before use. Measure the required volume **ICA PROCHLORAZ 450 EC** and pre-mix with at least 10 liter water. Agitate mixture in tank and add the pre-mixed product. Fill tank with water to required level while maintaining agitation to ensure thorough mixing before treatment commences. Observe the following formulation mixing sequence if other products will be tank mixed with **ICA PROCHLORAZ 450 EC**: buffer/acidifier, wettable powders, water dispersible granules, suspension concentrates, emulsifying concentrates and soluble concentrates last. Maintain agitation while dipping or spraying. Prepared mixture must not be left in tank for any length of time, e.g., overnight. Ensure agitation takes place prior to commencement of dipping / spraying after normal operation has stopped, e.g., lunch breaks. Clean all equipment thoroughly after use and dispose of wastewater without polluting the environment.

APPLICATION METHOD:

Ground application: **ICA PROCHLORAZ 450 EC** can be applied with conventional medium to high volume spray apparatus provided it is equipped with an efficient agitation mechanism and is able to distribute the spray mixture evenly over the target area. Ensure that the equipment is correctly calibrated prior to application.

Aerial Application:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow spray drift to water or areas not under treatment and contaminate these areas. Aerial application of **ICA PROCHLORAZ 450 EC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). 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 30 – 35 ℓ per hectare is recommended. The product has not been evaluated at reduced volume rates and the registration holder cannot guarantee efficacy or be held responsible for any adverse effects if the product is applied aurally at a lower rate than recommended above.
- ▶ **Droplet coverage:** 25 – 35 droplets / cm² must be recovered at the target area.
- ▶ **Droplet size:** A droplet spectrum with a VMD of 280 – 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift & evaporation potential) to a minimum.
- ▶ **Flying height:** Maintain the height of the spray boom at 3 – 4 m above the target. Do not spray when aircraft is diving, climbing or when banking.
- ▶ Use suitable atomizing 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 atomizers within the inner 60 – 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- ▶ The differences in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- ▶ Stop spraying if the wind speed exceeds 15 km/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:
 - a) reduced efficacy due to evaporation of small droplets in the air (inadequate coverage),
 - b) damage to other sensitive crops and/or non-target 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 logbook and kept for future reference.

APPLICATION TABLE

NB: PLEASE ALSO REFER TO MIXING AND DIPPING INSTRUCTIONS

CROP and DISEASE	DOSAGE	REMARKS
AVOCADOS (fruit) Postharvest control of anthracnose, stem-end rot and <i>Dothiorella/ Colletotrichum</i> complex	Spray-on treatment: 1100 mL / 100 ℓ water [5000 ppm active ingredient]	Apply as a low volume application using approximately 1.6 ℓ spray volume per ton of fruit. Apply on the conveyer belt system where fruits are rolling to expose all surfaces or where brushing is taking place. This application should take place before wax is applied.
BARLEY Eye spot (<i>Pseudocercospora herpotrichoides</i>)	Ground application 0.9 ℓ/ha Aerial application 1.1 ℓ/ha	Apply between the 4-leaf stage and the appearance of the first node in 400 ℓ water/ha (ground application). Generally, only one application will be sufficient. Good spray coverage is essential, use solid or hollow cone nozzles. *Aerial application: Apply in 30 ℓ water/ha, ONLY if it is impossible to access lands with ground spraying equipment.

<p>Leaf spot (<i>Rhynchosporium secalis</i>)</p> <p>Net blotch (<i>Pyrenosphora teres</i>)</p>	<p>Ground application 0.9 ℓ/ha</p>	<p>Apply between onset of stem elongation, and as soon as awns become visible, when first signs of disease are noticed. Apply in 300 ℓ water/ha (ground application). Repeat 3 – 4 weeks later under conditions of high disease pressure.</p> <p>*Aerial application: Apply in 30 ℓ water/ha.</p>
<p>Powdery mildew (<i>Erysiphe graminis</i>)</p>	<p>Aerial application 1 ℓ/ha</p>	<p>Apply in 300 ℓ water/ha (ground application) as soon as disease is noticed or under conditions favouring powdery mildew development.</p> <p>*Aerial application: Apply in 30 ℓ water/ha.</p> <p>Leaf rust (<i>Puccinia hordei</i>) can also be suppressed by ICA PROCHLORAZ 450 EC</p>
<p>BANANA (fruit) Postharvest control of collar rot</p>	<p>Dip treatment: 30 mℓ / 100 ℓ water [135 ppm active ingredient]</p>	<p>Cut bunches into hands and dip each individual hand for 5 seconds into fungicide suspension.</p> <p>Note: Care must be taken that the concentration of the dip remains constant by topping up regularly with a mixture made up in the proportion 30 mℓ ICA PROCHLORAZ 450 EC per 100 ℓ water. Stir the suspension regularly.</p>
<p>CITRUS (fruit) Postharvest control of green mould and blue mould</p>	<p>Brush on treatment: 330 mℓ / 100 ℓ water [1500 ppm active ingredient]</p>	<p>Apply during the fruit brushing process before the application of fruit wax. Use in combination with 2,4-D (sodium salt) and Thiabendazole. Follow the directions mentioned on the labels of these products.</p>
<p>MANGO (orchard) Powdery mildew (<i>Oidium mangiferae</i>) Blossom spot (<i>Alternaria alternata</i>, <i>Colletotrichum gloeosporioides</i>)</p>	<p>Orchard Application 28 mℓ / 100 ℓ water</p>	<p>Apply as high volume application commencing at 20 – 50 % flowering, in a spray programme with 14-day intervals, up to 100 % petal drop.</p> <p>Alternate with products from different FRAC groups.</p> <p>The above application will suppress blossom blight (<i>Dothiorella dominicana</i>) up to 74 %.</p>
<p>MANGO (fruit) Postharvest control of anthracnose and the suppression of soft brown rot</p>	<p>Dip treatment:</p> <p>Fruit for export: 180 mℓ / 100 ℓ water</p> <p>Fruit for local market: 90 mℓ / 100 ℓ water</p>	<p>Dip fruit for 20 seconds into fungicide suspension at room temperature. NB: Fruit should be pre-dipped in hot water for 5 minutes. Water temperature should not exceed 50 °C, especially during early part of season and especially with cultivars Zill and Irwin. Phytotoxicity with hot water alone can be experienced during certain seasons.</p> <p>Dip fruit for 2 minutes into hot fungicide suspension. The water temperature should not exceed 50 °C especially with the cultivars Zill and Irwin. Phytotoxicity with hot water alone can be experienced during certain seasons.</p>
<p>WHEAT Eye spot (<i>Pseudocercospora herpotrichoides</i>)</p>	<p>Ground application 0.9 ℓ/ha</p> <p>*Aerial application 1.1 ℓ/ha</p>	<p>Apply in 400 ℓ water/ha (ground application) between the 5-leaf stage and the appearance of the first node. Generally, only one application will be sufficient. Good spray coverage is essential; therefore, use solid or hollow cone nozzles.</p> <p>*Aerial application: Apply between the 4- and 6-leaf stage in 30 ℓ water/ha ONLY if it is impossible to access lands with ground spraying equipment.</p>
<p>Speckled leaf and Glume blotch (<i>Septoria</i> spp.)</p>	<p>Ground application 0.9 ℓ/ha</p> <p>*Aerial application 1.0 ℓ/ha</p>	<p>Apply in 300 ℓ water/ha (ground application)</p> <p><u>Speckled leaf blotch:</u> Apply from early tillering stage.</p> <p><u>Glume blotch:</u> Apply from early flagleaf stage to when the ears are just visible.</p> <p>*Aerial application: Apply in 30 ℓ water/ha.</p>

*Also refer to: **Aerial Application** instructions above.

ICA PROCHLORAZ 450 EC

Wet Nr. 36 van 1947
SA Reg. Nr. L8478

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

AKTIEWE BESTANDEDEEL:

Prochloras (imidasool) 450 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

Vlambare vloeistof en damp
Skadelik indien ingesluk
Mag dodelik wees indien ingesluk en in lugweg beland
Moontlik skadelik in aanraking met vel
Skadelik indien ingeasem
Veroorsaak velirritasie
Veroorsaak ernstige oogskade
Mag skade aan organe veroorsaak deur langdurige of herhaalde blootstelling
Baie giftig vir waterlewende organismes met langdurige gevolge

ONTHOUDINGSPERIODES (Minimum aantal dae tussen laaste toediening en oes of bewyding / voeding):

- * Gars en Koring (*moenie koring en gars bewei nie*) 42 Dae
- * Mangoes (*boord toedienings*) *Moenie na 100 % blomblaarval toedien nie.*

Nakoming van hierdie onthoudingsperiodes 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 word bestem is vir uitvoer, raadpleeg die betrokke in- of uitvoerder rakende die gebruik van hierdie produk, die MRL en aanbevole onthoudingsperiodes. Alhoewel **ICA PROCHLORAZ 450 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. **ICA PROCHLORAZ 450 EC** moet eers getoets word op nuwe kultivars voordat dit oor groot areas aangewend 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.
Hou weg van hitte, warm oppervlakte, vonke, oop vlamme en ander ontstekingsbronne. Rook verbode.
Hou houer dig geseël.
Aard en verbind houer en ontvangstoerusting.
Gebruik plofbestande [elektriese, ventilasie-, beligting-] toerusting.
Gebruik vonkvrye gereedskap.
Stel voorkomende maatreëls teen statiese ontladings in.
Moet nie stuifsel/dampe/spuitstof inasem nie.
Was hande, gesig en blootgestelde vel deeglik na hantering. Moet nie aan oë raak nie.
Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie.
Gebruik slegs buitenshuis of in ’n goed geventileerde area.
Vermy vrystelling in die omgewing.
Dra beskermende handskoene/beskermende klere/oog- en gesigbeskerming.
INDIEN INGESLUK: Kry onmiddellik mediese noodhulp. Moet nie vomering induseer nie.
INDIEN OP VEL (of hare): Trek onmiddellik alle besoedelde klere uit. Spoel aangetaste areas met seep en water af of stort.
Indien velirritasie ontstaan: Kry mediese hulp.
Was besoedelde klere voor hergebruik.
INDIEN INGEASEM: Neem slagoffer na vars lug en hou gemaklik vir asemhaling. Kry mediese hulp.
INDIEN IN OË: Spoel onmiddellik met water vir etlike minute. Verwyder kontakklense, indien aanwesig en maklik om te verwyder. Hou aan met spoel. Kry mediese hulp.
Verkry mediese hulp indien jy ongesteld voel.
Vir spesifieke behandeling sien noodhulp afdeling op hierdie etiket.

In geval van brand: Gebruik water sproei, alkohol-weerstandige skuim, droë chemikalieë of koolstof dioksied CO₂ om die brand te blus.
Maak stortsel bymekaar.
Berg in 'n goed geventileerde plek. Hou koel.
Berg agter slot en grendel.
Raak ontslae van inhoud en houer volgens nasionale regulasies.

SPOEL DIE LEË HOUER DRIE MAAL SOOS VOLG: Keer die leë houer om oor 'n meng- of spuittenk 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 spuittenk. Kap gate in die gespoelde houer, waarna dit aan 'n goedgekeurde versamelaar of verwerker oorhandig moet word (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:

Prochloras (Cas no: 67747-09-5) Akute Giftigheid Orale/Mondelings Kategorie 4, H302; Waterlewend Akut Kategorie 1, H400; Waterlewend Kronies Kategorie 1, H410 (45 % m/v).

2-Butoksi-etanol (Cas no: 111-76-2) Akute Giftigheid Mondelings Kategorie 4, H302; Akute Giftigheid Inaseming Kategorie 4, H332; Velirritasie Kategorie 2, H315; Oogirritasie Kategorie 2, H319 (10 – 30 % m/v).

Benseensulfoonsuur (Cas no: 90194-26-6) Velirritasie Kategorie 2, H315; Oogskade Kategorie 1, H318 (< 10 % m/v).

2-metielpropan-1-ol (isobutanol) (Cas no: 78-83-1) Vlbare Vloeistof Kategorie 3, H226; Velirritasie Kategorie 2, H315; Oogskade Kategorie 1, H318; Giftig vir Spesifieke Teikenorgane, Eenmalige Blootstelling Kategorie 3, H335 (< 10 % m/v).

Oplosmiddel nafta (petroleum) (Cas no: 64742-94-5) Inasemingsgevaar Kategorie 1, H304 (30 – 50 % m/v).

Etaandiol (etileenglikol) (Cas no: 107-21-1) Akute Giftigheid Mondelings Kategorie 4, H302; Spesifieke Teikenorgaan giftigheid, Herhaalde Blootstelling Kategorie 2, H373 (< 10 % m/v).

NOODHULP

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

- INGEASEM:**
- 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-asehaling toepas indien die slagoffer die stof opgeneem of ingeasem het nie; was gesig en mond voordat kunsmatige asemhaling toegepas word. Gebruik 'n sakmasker toegerus met 'n eenrigtingklep of ander geskikte mediese asemhalingtoestel.
- VEL:**
- Dien suurstof toe as die slagoffer se asemhaling moeilik of onreëlmatig is. Kry mediese hulp.
 - 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. In geval van brandwonde, koel aangetaste vel ONMIDDELLIK af met koue water vir so lank as moontlik.
- 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 aanmoedig nie, tensy deur 'n gifbeheersentrum of dokter aangesê om dit te doen. Laat persoon slukkies van 'n glas water neem indien in staat om te sluk.
 - Moet nooit iets per mond aan 'n bewustelose persoon toedien nie.
 - Indien vomering plaasvind, hou aan vloeistowwe gee. Kry mediese hulp.
- 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:**
- Gevolge van blootstelling (inaseming, opneming of velkontak) aan stof kan vertraag wees.

WEERSTANDSWAARSKUWING

Vir weerstand bestuur: ICA PROCHLORAZ 450 EC is 'n groepkode (3) swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen **ICA PROCHLORAZ 450 EC** of enige ander groepkode (3) swamdoder het. Indien hierdie swamdoder herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **ICA PROCHLORAZ 450 EC** of enige ander groepkode (3) swamdoder beheer word nie.

Om weerstand teen swamdoders te vertraag:

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

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

WERKINGSWYSE

Prochloras behoort aan die imidasoolklas swamdoders (FRAC-groep 3). Imidasool verander die selmembraan permeabiliteit van vatbare giste en swamme deur die sintese van ergosterol te blokkeer (demetilering van lanosterol word geïnhibeer), wat die primêre selsterol van swamme is.

GEBRUIKSAANWYSINGS – gebruik slegs soos aangedui

VERENIGBAARHEID:

Verenigbaar met 2,4-D (natriumsout) en Thiabendasool.

MENG INSTRUKSIES:

Maak die doop-/spuittenk halfvol skoon water. Skud die **ICA PROCHLORAZ 450 EC** houër deeglik voor gebruik. Meng die verlangde volume **ICA PROCHLORAZ 450 EC** vooraf met minstens 10 liter water. Voeg hierdie mengsel by die doop-/spuittenk terwyl dit voortdurende geroer word. Vul tenk met water terwyl geroer word tot by verlangde vlak. Observer die volgende mengvolgordes van die formulاسies indien ander produkte saam met **ICA PROCHLORAZ 450 EC** in 'n tenkmengsel toegedien gaan word: buffer/versuurder, benatbare poeiers, waterdispergeerbare korrels, suspensie konsentrate, emulgeerbare konsentrate en oplosbare konsentrate laaste. Handhaaf roering deurlopend tydens doop- of spuitbehandeling. Moenie aangemaakte mengsel vir onbepaalde tyd in doop-/spuittenk los nie, bv. oornag. Maak seker dat mengsel geroer word voordat voortgegaan word met doop-/spuitproses na onderbreking, bv. etenstyd. Maak alle apparate deeglik skoon na gebruik en moenie die omgewing met spoelwater besoedel nie.

TOEDIENINGSMETODE:

Grondtoediening: **ICA PROCHLORAZ 450 EC** kan toegedien word met enige geskikte medium- tot hoë volume spuitapparaat mits dit korrek gekalibreer is, dit oor doeltreffende roer-meganisme beskik en in staat is om die spuitmengsel eweredig oor die teikenoppervlak te versprei.

Lugtoediening:

Stel alle inwoners in die onmiddellike omgewing wat gespuit word in kennis en reik die nodige waarskuwings uit. Moet nie toelaat dat die spuitnewel oor water dryf of daarvoor spuit of dat dit die aanliggende gebied besoedel nie. **ICA PROCHLORAZ 450 EC** kan slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS kode 10118 ('Aerial Application of Agricultural Pesticides') uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- ▶ **Volume:** 'n Spuitmengsel van 30 – 35 ℓ per hektaar word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- ▶ **Druppelbedekking:** 25 – 35 druppels / cm² moet op die teikenarea herwin word.
- ▶ **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 280 – 300 mikron word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikron (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- ▶ **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 – 4 m. Moet nie spuit wanneer vliegtuig duik, uitklim of draai nie.
- ▶ Gebruik geskikte **atomiseringsapparaat** wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike relatiewe span produseer.
- ▶ Plaas al die atomiseerders in die binneste 60 – 75 % van die vlerkspan om te verhoed dat druppels binne-in die **vlerkpuntvorteks** beweeg.
- ▶ Die verskil in **temperatuur** tussen die nat- en droë-boltermometer van 'n swaaihigrometer, moet nie 8 °C oorskry nie.
- ▶ Stop bespuiting indien die **windspoed** 15 km/h oorskry.
- ▶ Stop bespuiting tydens **turbulente**, onstabiele en droë toestande gedurende die hitte van die dag.
- ▶ Bespuiting onder temperatuur **inversie toestande** (deur bo of binne die inversie laag te spuit) en/of **hoë lugvog toestande** (relatiewe humiditeit 80 % en meer) mag tot die volgende probleme aanleiding gee:
 - a) verlaagde doeltreffendheid aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken),
 - b) skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- ▶ Verseker dat die lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- ▶ Verkry 'n versekering van die lugbespuitingsoperateur dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

TOEDIENINGS TABEL

NB: VERWYS OOK ASSEMBLIEF NA MENG- EN DOOPINSTRUKSIES

GEWAS en SIEKTE	DOSIS	OPMERKINGS
AVOKADO'S (vrugte) Na-oes bederf beheer van antraknose, stingelentvrot en <i>Dothiorella/Colletotrichum</i> kompleks	Aanspuitbehandeling: 1100 ml / 100 ℓ water [5000 dpm aktiewe bestanddeel]	Dien toe as lae volume bespuiting en gebruik ongeveer 1.6 ℓ suspensie per ton vrugte. Dien toe op die vervoerbandstelsel waar vrugte rol en alle oppervlaktes blootgestel word of waar vrugte geborsel word. Dien toe voor behandeling met waks.
GARS Oogvlek (<i>Pseudocercospora herpotrichoides</i>)	Grondtoediening: 0.9 ℓ/ha Lugtoediening: 1.1 ℓ/ha	Dien toe tussen die 4-blaar stadium en die verskyning van die eerste node in 400 ℓ water/ha (grondtoediening). Gewoonlik sal een toediening voldoende wees. Goeie bedekking is noodsaaklik, gebruik soliede of holkeëlsputkoppe. *Lugtoediening: Dien toe in 30 ℓ water/ha, SLEGS as dit onmoontlik is om toegang tot landerye te verkry met grondtoedienings apparaat.

<p>Blaarvlek (<i>Rhynchosporium secalis</i>)</p> <p>Netvlek (<i>Pyrenophora teres</i>)</p>	<p>Grondtoediening: 0.9 ℓ/ha</p> <p>Lugtoediening: 1 ℓ/ha</p>	<p>Dien toe tussen aanvang van stamverlenging, en so gou as baard sigbaar is, wanneer die eerste tekens van die siekte opgemerk word. Dien toe in 300 ℓ water/ha (grondtoediening). Herhaal 3 – 4 weke later onder toestande van hoë siektedruk.</p> <p>*Lugtoediening: Dien toe in 30 ℓ water/ha.</p>
<p>Poeieragtige meeldou (<i>Erysiphe graminis</i>)</p>		<p>Dien toe in 300 ℓ water/ha (grondtoediening) sodra die siekte opgemerk word, of onder toestande gunstig vir poeieragtige meeldou ontwikkeling.</p> <p>*Lugtoediening: Dien toe in 30 ℓ water/ha.</p> <p>Blaarroes (<i>Puccinia hordei</i>) kan ook onderdruk word deur ICA PROCHLORAZ 450 EC.</p>
<p>KORING Oogvlek (<i>Pseudocercospora herpotrichoides</i>)</p>	<p>Grondtoediening: 0.9 ℓ/ha</p> <p>*Lugtoediening: 1.1 ℓ/ha</p>	<p>Dien toe in 400 ℓ water/ha (grondtoediening) tussen die 5-blaarstadium en die verskyning van die eerste node. Gewoonlik sal een toediening voldoende wees. Goeie bedekking is noodsaaklik, gebruik dus soliede of holkeëlsputkoppe.</p> <p>*Lugtoediening: Dien toe tussen die 4- en 6-blaarstadium in 30 ℓ water/ha SLEGS as dit onmoontlik is om toegang tot landerye te verkry met grondtoedienings apparaat.</p>
<p>Vaalblaar en Bruinaarsiekte (<i>Septoria</i> spp.)</p>	<p>Grondtoediening: 0.9 ℓ/ha</p> <p>*Lugtoediening: 1.0 ℓ/ha</p>	<p>Dien toe in 300 ℓ water/ha (grondtoediening)</p> <p><u>Vaalblaar:</u> Dien toe vanaf die vroeë stoelstadium.</p> <p><u>Bruinaarsiekte:</u> Dien toe vanaf die vroeë vlagblaar stadium tot wanneer die are net sigbaar is.</p> <p>*Lugtoediening: Dien toe in 30 ℓ water/ha.</p>
<p>MANGO'S (boorde) Poeieragtige meeldou (<i>Oidium mangiferae</i>) Bloeiselvlek (<i>Alternaria alternata</i>, <i>Colletotrichum gloeosporioides</i>)</p>	<p>Boord – Toediening 28 mℓ / 100 ℓ water</p>	<p>Dien toe as 'n hoë volume bespuiting beginnende by 20 – 50 % blom in 'n spuitprogram met 14 dae intervalle tot en met 100 % blomblaarval.</p> <p>Wissel af met middels van ander FRAC groepe.</p> <p>Die bogenoemde toediening sal bloeiselversenging (<i>Dothiorella dominicana</i>) onderdruk tot 'n vlak van 74 %.</p>
<p>MANGO'S (vrugte) Na-oes bederf beheer van antraknose en die onderdrukking van bruinvrot</p>	<p>Doopbehandeling:</p> <p>Vrugte vir uitvoer 180 mℓ / 100 ℓ water</p> <p>Vrugte vir plaaslike mark 90 mℓ / 100 ℓ water</p>	<p>Doop vrugte vir 20 sekondes in swamdoder-suspensie by kamertemperatuur. NB: Vrugte moet vooraf vir 5 minute gedoop word in warm water wat nie 50 °C oorskry nie. Fitotoksiteit mag sekere seisoene voorkom veral op kultivars Zill en Irwin. Vroeë seisoen vrugte is meer geneig tot skade en soms kan warmwater behandeling alleen lei tot fitotoksiteit.</p> <p>Doop vrugte vir 2 minute in warm swamdoder-suspensie. Die water temperatuur moet nie tydens vroeë seisoen 50 °C oorskry nie asook by kultivars Zill en Irwin. Vroeë seisoen vrugte is meer geneig tot skade en soms kan warmwater behandeling alleen lei tot fitotoksiteit.</p>
<p>PIESANGS (vrugte) Na-oes beheer van kraagvrot</p>	<p>Doopbehandeling: 30 mℓ / 100 ℓ water [135 dpm aktiewe bestanddeel]</p>	<p>Sny trosse op in hande en doop elke individuele hand vir 5 sekondes in die voorgeskrewe fungisied-suspensie.</p> <p>Nota: Sorg dat konsentrasie van swamdoder-suspensie konstant bly deur gereelde aanvulling met 'n suspensie van 30 mℓ ICA PROCHLORAZ 450 EC per 100 ℓ water. Roer suspensie gereeld</p>
<p>SITRUS (vrugte) Na-oes beheer van groenskimmel en blouskimmel</p>	<p>Aanborselbehandeling: 330 mℓ / 100 ℓ water [1500 dpm aktiewe bestanddeel]</p>	<p>Dien toe tydens proses waar vrugte geborsel word, voor aanwending van waks. Gebruik in kombinasie met 2,4-D (natriumsout) en Thiabendasool. Volg etiketaanwysings van hierdie produkte.</p>

*Verwys ook na **Lugtoediening** instruksies bo.