

For full particulars see enclosed leaflet / Vir volledige inligting sien ingeslote vouiljet

Sporekill®

SA Reg No: L7115 NAM Reg No: N-AR 1063 BWA Reg No: W130911
Act No. / Wet No. 36 of/van 1947

A SOLUBLE CONCENTRATE CONTACT BACTERICIDE AND FUNGICIDE FOR THE CONTROL OF THE DISEASES MENTIONED ON THE CROPS LISTED
'N OPLOSBARE KONSENTRAAT KONTAK BAKTERISIED EN SWAMDODER VIR DIE BEHEER VAN SIKTES BY GEWASSE SOOS GENOEM

FRAC SWAMDODER GROEPEKODE

NC

FRAC FUNGICIDE GROUP CODE

AKTIEWE BESTANDDEEL:

Didesieldimetiëlammonium chloried
(Kwaterneë ammoniumverbinding)

120 g/l

ACTIVE INGREDIENT:

Didecyldimethylammonium chloride
(Quaternary ammonium compound)

Batch No: SEE
Date of Manufacture: CONTAINER



Net Volume
SEE CONTAINER l

ICA International Chemicals (Pty) Ltd
Reg. No. 2001/013319/07
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UN No: 3082

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Group III



CAUTION
VERSIGTIG



SPOREKILL®

Act 36 of 1947 South Africa Reg. No. L7115/Namibia Reg. No. N-AR 1063
Botswana Agrochemical Reg. No: W130911

A soluble concentrate contact bactericide and fungicide for the control of various diseases under crops as listed:

ACTIVE INGREDIENT:

Didecyldimethylammonium chloride 120 g/ℓ
(Quaternary ammonium compound)

REGISTERED BY:

ICA International Chemicals (Pty) Ltd.

Reg. No: 2001/013319/07

PO Box 2312 ♦ STELLENBOSCH ♦ 7601 ♦ South Africa

CAUTION WARNINGS

Withholding periods (Minimum number of days between last application and harvest):

• Carrots and Parsnips	3 days
• Cruciferous crops	14 days
• Cucurbit crops	2 days
• Grapes (wine) in tank mix with mancozeb	14 days
• Grapes (wine) in tank mix with copper fungicides	21 days
• Stone fruit	82 days
• Onion and Garlic	22 days
• Pomegranate	40 days
• Peppers, with post-harvest SPOREKILL® application	7 days
• Peppers, without post-harvest SPOREKILL® application	0 days
• Potatoes and Sweet Potatoes	7 days
• Strawberries	3 days
• Tomatoes, with post-harvest SPOREKILL® application	3 days
• Tomatoes, without post-harvest SPOREKILL® application	0 days

Compliance with these withholding periods and the other applications will ensure that residues do not exceed local maximum residue limits (MRL), but the import tolerances of other countries might possibly be exceeded. 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.

- Keep out of reach of children, animals and uninformed persons.
- Harmful by inhalation DO NOT inhale spray, mist or fog.
- Harmful if swallowed DO NOT drink this product.
- The undiluted product may cause serious irritation to the skin, prevent skin contact.
- Risk of irreversible damage to the eye (corrosive to the eye), avoid contact with eyes.
- Toxic to fish and other aquatic organisms.
- Store in a cool, dry place away from food, feed and drinking water.

Re-entry interval: Do not enter treated area/field until spray deposit has settled down/dried unless wearing protective clothing and self-contained breathing apparatus.

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, the environment or harm to man or 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

- Prevent skin contact when handling the undiluted product, wear rubber gloves. IF ON SKIN: Gently wash with plenty of water and soap.
- Prevent contact with eyes; wear chemical splash goggles or safety glasses. IF IN contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice.
- Prevent inhalation where spray, mist or fog is generated, wear a self-contained breathing apparatus. IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a comfortable position. Persons with respiratory conditions must avoid areas while spraying is administered.
- Wash hands thoroughly with soap and water after handling and before eating or drinking.
- Do not eat, drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Avoid spray drift onto rivers, dams or areas not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- EMPTY CONTAINERS: 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. Do not use container for any other purpose.

DIRECTIONS FOR USE USE ONLY AS DIRECTED

Compatibility:

SPOREKILL® compatibility with other agricultural chemicals can be influenced by factors such as dilution water quality and product formulations. It is therefore recommended to always first perform a physical compatibility test (jar test) prior to application. SPOREKILL® is generally incompatible with concentrated anionic agricultural chemicals.

General instructions:

- No wetter need to be added since SPOREKILL® has wetting characteristics.
- The stability and efficacy of SPOREKILL® is not pH dependable. If used with other chemicals follow their pH recommendations.
- During post-harvest wash of avocado, citrus, mango and tomato, fruit **must not be left** in dumptank for long periods. This may result in serious burning of sensitive fruit.
- Take note: SPOREKILL® controls post-harvest decay in avocado, citrus, mango and tomato fruit induced by infections taking place during the washing process. The use of registered fungicides to control post-harvest decay caused by orchard infections still need to be applied.
- **DO NOT** use SPOREKILL® in **hot water dump tanks**. This may result in serious burning of sensitive avocado, citrus, mango and tomato fruit.
- Under heavy agitation foam may develop. Use anti-foam product *Foam Fighter* if necessary.
- Shake concentrate before use.

APPLICATION RATES			
CROP	DISEASE	DOSAGE PER 100 ℓ WATER	REMARKS
Apples and Pears Post-harvest treatment	Post-harvest decay caused by <i>Penicillium expansum</i> .	100 mℓ	Dip or drench fruit after harvest or regular atmosphere (R.A.) storage. Not for use after controlled atmosphere (C.A.) storage. For best results keep fruit wet for at least 10 minutes. Keep SPOREKILL concentration at recommended rate by using "SPOREKILL Test Kit".
Avocado Post-harvest treatment	Anthraxnose, caused during washing process in dump tank by <i>Colletotrichum gloeosporioides</i> .	100 – 150 mℓ	Dip fruit for 3-5 minutes. Use higher rate under conditions conducive to high disease pressure. Keep SPOREKILL concentration as recommended rate by using "SPOREKILL Test Kit".
Carrots and Parsnips Pre-harvest foliar application	Powdery mildew (<i>Erysiphe heraclei</i>)	100 mℓ	Apply preventatively or when first disease symptoms are observed. Repeat with 7 – 10 day intervals, depending upon disease pressure. Apply as a high volume application at 300 – 500 ℓ spray mixture/ha depending on plant size. Ensure thorough coverage of all foliage.
Citrus Post-harvest treatment	Green-, Blue mould and Sour rot, caused during washing process, by controlling dump tank, pre-degreening drench or high pressure washing system borne <i>Penicillium digitatum</i> , <i>P. italicum</i> , <i>Galactomyces citri-aurantii</i> (<i>Geotrichum candidum</i>) including imazalil-resistant <i>Penicillium</i> populations.	100 – 150 mℓ	Dip fruit for 3-5 minutes as soon as possible after harvest. Use higher rate under conditions conducive to high disease pressure. Keep SPOREKILL concentration at recommended rate by using "SPOREKILL Test Kit".
Citrus Orchard application: (To reduce rates of copper and mancozeb applied to citrus orchards.) NB. SPOREKILL is not effective against Black and Alternaria Spot when used on its own.	Black spot caused by <i>Phyllosticta citricarpa</i> (<i>Guignardia citricarpa</i>) AND Alternaria spot caused by <i>Alternaria alternata</i> .	Tank mix 100 mℓ PLUS 100 g mancozeb ^a OR 100 mℓ PLUS 100 g copper oxychloride ^a OR 100 mℓ PLUS 100 g copper hydroxide ^a [Do not use pH-buffers in tank mixtures containing copper fungicides]	Black spot Apply preventatively, four full cover sprays at 25-30 days intervals. Apply first application before 15 October. Ensure thorough coverage of both foliage and fruit surfaces. Alternaria Spot Commence high volume cover sprays at first flush and repeat every 30 days until harvest. The number of applications (up to 7) is dependent on weather conditions during February – April. In wet conditions, additional applications are necessary to inhibit further infections.
Citrus Trunk and branch treatment	Phytophthora trunk and Branch canker (<i>Phytophthora citrophthora</i>)	100 mℓ PLUS 200 g captab ^a	Apply after harvest directly to trunk and lower affected branches with hand guns or knapsack by using 1 – 2 ℓ of spray mixture per tree. Do not spray onto fruit if present. Repeat treatment with 3 month intervals. Please Note: The disease will not be controlled on trees of which the trunks are already 60 % or more girdled by the pathogen.
Crucifer Crops	Downy mildew (<i>Hyaloperonospora brassicae</i>)	100 mℓ	Apply SPOREKILL preventively in 7 days intervals. Under high disease pressure, include a systemic fungicide into spray programme. Apply a minimum of 500 mℓ SPOREKILL /ha. Ensure thorough coverage of both upper and lower leaf surfaces. Do not apply more than 5 times on the heads or flowerheads. Can be applied with registered copper containing fungicides in a tank mixture.
Cucurbit Crops Greenhouse & field produced (Only Western Cape for field produced cucurbits)	Powdery mildew (<i>Sphaerotheca fuliginea</i> and <i>Erysiphe cichoracearum</i>)	100 mℓ	Apply preventively at 7-12 days intervals. Under high disease pressure, spray every 7 days and include a systemic fungicide into program. Ensure thorough coverage of both upper and lower leaf surfaces. Do not apply more than 4 times when fruit are present.
Grapevines Propagation material	Infection of grapevine propagation material by decline and dieback pathogens such as <i>Phaeoaniella chlamydospora</i> , <i>Phaeoacremonium</i> , <i>Botryosphaeria</i> and <i>Phomopsis</i> spp.	150 mℓ	Rootstock and Scion cutting treatment Immediately after cutting preparation and pre-cold storage soak for 1 hour in SPOREKILL solution. After cold storage one day prior to grafting soak for 10 minutes. This treatment can also be done in cool-down water following hot water treatment. Pre-Plant treatment After callus, directly prior to planting dip for 5 seconds in SPOREKILL solution. General sanitation For disinfection of grafting equipment, tables, work surfaces, grafting sheds, callusing boxes, etc. For best results, first wash surfaces to remove dirt and then disinfect by keeping surfaces wet for 10 minutes.
Wine Grapes (NB. SPOREKILL is not effective against downy mildew when used on its own.)	Downy mildew caused by <i>Plasmopara viticola</i> .	Tank mix 100 mℓ PLUS 100 g mancozeb ^a OR 100 mℓ PLUS 250 g copper oxychloride ^a OR 100 mℓ PLUS 250 mℓ copper ammonium acetate ^a [Do not use pH-buffers in tank mixtures containing copper fungicides]	Pre-blossom Apply first spray when young shoots have reached length of 10cm. Repeat with 7 – 10 day intervals, depending upon weather conditions. Apply as a high volume application at 500 – 700 ℓ spray mixture/ha. Blossom to 80% Calyx fall Apply only if the blossoming period is longer than 14 days. Apply as a high volume application at 750 – 1000 ℓ spray mixture/ha. Post blossom Apply two more applications at 7 – 14 day intervals, depending upon weather conditions. Apply as a high volume application at 1000 – 1500 ℓ spray mixture/ ha.
Mango Post-harvest treatment	Anthraxnose, caused during washing process in dump tank by <i>Colletotrichum gloeosporioides</i> .	100 – 150 mℓ	Dip fruit for 3-5 minutes. Use higher rate under conditions conducive to high disease pressure. Keep SPOREKILL concentrations at recommended rate using "SPOREKILL Test Kit".
Pomegranate	Botrytis Grey mould (<i>Botrytis cinerea</i>)	100 mℓ	Apply SPOREKILL preventively from flowering in 7 days intervals. Do not apply more than six applications per season on fruit. Will also suppress Alternaria.
Onion and Garlic	Purple blotch (<i>Alternaria porri</i>) AND <i>Botrytis</i> spp.	100 mℓ	Apply preventively in 7 day intervals. Under high disease pressure, include a systemic fungicide into spray programme. Apply a minimum of 500 mℓ SPOREKILL /ha. Ensure thorough coverage of both upper and lower leaf surfaces. Do not apply more than 5 times.
Peppers	Powdery mildew (<i>Leveillula</i> sp.)	100 mℓ	Apply SPOREKILL preventively in 7 days intervals. Under high disease pressure, include a systemic fungicide into spray programme. Apply a minimum of 500 mℓ SPOREKILL /ha. Ensure thorough coverage of both upper and lower leaf surfaces. Do not apply more than 6 applications on fruit.
Peppers Post-harvest treatment	Soft rot (<i>Pectobacterium carotovorum</i>), prevents infection of pepper fruit in the wash water.	100 mℓ	Apply for 3 minutes in the wash water. Keep SPOREKILL concentration at recommended rate by using "SPOREKILL Test Kit". Replace solution when water is dirty. Damaged fruit (cracks and holes) must not be treated.

Stone Fruit	Peach leaf curl (<i>Taphrina deformans</i>)	100 mℓ Spray Volume 1 200 -3000 ℓ/ha	Apply SPOREKILL [®] preventively at 7 days intervals from bud swell until fruit set. Do not apply more than 5 times. Can be applied in a tank mixture with thiram 750 g/kg or registered copper containing fungicides.
Potatoes and Sweet Potatoes	Botrytis Grey mould (<i>Botrytis cinerea</i>)	100 mℓ	Apply SPOREKILL [®] preventively in 7 days intervals. NB Start applications before canopy closure. Under high disease pressure, include a systemic fungicide into spray programme. Apply a minimum of 500 mℓ SPOREKILL [®] /ha. Ensure thorough coverage of both upper and lower leaf surfaces.
Seed Potato Tubers Pre-plant treatment	Bacterial rot caused by contamination of tubers, during the washing/dip treatment process, by controlling water borne <i>Pectobacterium (Erwinia)</i> spp.	150 mℓ	Dip tubers 3-5 minutes. Replace solution when water is too dirty. Treat only whole potato tubers. Keep SPOREKILL [®] concentration at recommended rate by using " SPOREKILL [®] Test Kit".
Strawberries	Botrytis Grey mould (<i>Botrytis cinerea</i>)	100 mℓ	Apply 2 applications before harvest in 7 day intervals. Apply a minimum of 500 mℓ SPOREKILL [®] /ha. Ensure thorough coverage of leaf and fruit surfaces.
Tomatoes	Powdery mildew (<i>Leveillula taurica</i>)	100 mℓ	In Apply SPOREKILL [®] preventively in 7 days intervals. Under high disease pressure, include a systemic fungicide into spray programme. Apply a minimum of 500 mℓ SPOREKILL [®] /ha. Ensure thorough coverage of both upper and lower leaf surfaces. Do not apply more than 4 applications on fruit. SPOREKILL [®] treatments can delay onset of Late Blight (<i>Phytophthora infestans</i>)
Tomatoes Post-harvest treatment	Sour rot, caused during washing process in dump tank by <i>Geotrichum</i> sp.	150 mℓ	Dip fruit for 3-5 minutes. Keep SPOREKILL [®] concentration at recommended rate by using " SPOREKILL [®] Test Kit". Replace solution when water is too dirty.

SpkISA/NAM/BOTACT36-016

²Only use those products together with **SPOREKILL**[®] that are registered for the particular claim.

Captab 500 g/kg WP, Thor (L7691)
Mancozeb 800 g/kg WP
Copper oxychloride 850 g/kg WP
Copper hydroxide 770 g/kg WP
Copper ammonium acetate 316 g/ℓ SL
Thiram 750 g/kg

SPOREKILL[®] is a registered trade mark of **ICA Laboratories cc.**

SPOREKILL®

Wet 36 van 1947 Suid-Afrika Reg. Nr. L7115/Namibia Reg. Nr. N-AR 1063
Botswana Agrochemical Reg. No: W130911

'n Oplosbare konsentraat kontak bakteriesied en swamdoder vir die beheer van verskeie siektes by gewasse soos aangedui:

AKTIEWE BESTANDEDEEL:

Didesieldimietlammonium chloried 120 g/ℓ
(Kwaterneë ammoniumverbinding)

GEREGISTREER DEUR:

ICA International Chemicals (Pty) Ltd.

Reg. No: 2001/013319/07

Posbus 2312 ♦ STELLENBOSCH ♦ 7601 ♦ Suid-Afrika

VERSIGTIG WAARSKUWINGS

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

- Aartappels en Soetpatats 7 dae
- Aarbeie 3 dae
- Druive (wyn) in tenkmengsel met mankoseb 14 dae
- Druive (wyn) in tenkmengsel met koper swamdoders 21 dae
- Granate 40 dae
- Koolgewasse 14 dae
- Pampoengewasse 2 dae
- Rissies (soet), **met** SPOREKILL® na-oes behandeling 7 dae
- Rissies (soet), **sonder** SPOREKILL® na-oes behandeling 0 dae
- Steenvrugte 82 dae
- Tamaties, **met** SPOREKILL® na-oes behandeling 3 dae
- Tamaties, **sonder** SPOREKILL® na-oes behandeling 0 dae
- Uie en Knoffel 22 dae
- Wortels en Witwortels 3 dae

Nakoming van hierdie onthoudingsperiodes en die ander toedienings sal verseker dat die plaaslike maksimum residu limiete (MRL) nie oorskry word nie, maar mag dalk nie voldoen aan die invoer vereistes 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, MRL en aanbevole onthoudingsperiodes.

- Hou buite bereik van kinders, oningeligte persone en diere.
- Skadelik indien inge-aseem word, MOENIE spuitnewel inasem nie.
- Skadelik indien produk gesluk word, MOENIE die produk drink nie.
- Die **onverdunde produk** kan ernstige vel irritasie veroorsaak, voorkom kontak met vel.
- Risiko vir ernstige skade aan oë (korrosief vir die oog), voorkom kontak met oë.
- Giftig vir visse en ander waterorganismes.
- Berg in 'n koel, droë plek weg van voedsel, voer en drinkwater.

Herbetretingsinterval: Moet nie behandelde gebied binnegaan voordat die spuitnewel afgesak het en oppervlakte droog is nie tensy beskermende oorklere en gesigmasker gedra 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

- Voorkom kontak met onverdunde produk, dra rubber handskoene. Indien in kontak met vel, was met water en seep.
- Voorkom kontak met oë, dra chemiese beskermings brille of gesigskerm. **Indien in kontak** met oë, spoel oog onmiddellik uit met lopende water vir 15 minute en kry onmiddellik mediese hulp.
- Voorkom inaseming van sproei of missproei, dra gesigmasker. **Indien inaseming plaasvind**, verwyder die persoon na vars lug en hou persoon rustig. Persone met lang toestande moet areas vermy terwyl bespuitings toegedien word.
- Moenie eet, drink of rook terwyl die produk hanteer word nie.
- Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.
- Vermy waai van spuitnewel na riviere of damme en areas wat nie onder behandeling is nie.
- Na gebruik, maak toediener deeglik skoon en gooi waswater waar dit nie gewasse, weiding, riviere of damme sal besoedel nie.
- LEË HOÛERS: Sodra houer leeg is, keer om oor spuittenk of mengbak en dreineer vir minstens 30 sekondes totdat vloei tot gedrup verminder het. Spoel leë houer daarna driekeer uit met 'n volume water gelykstaande aan minstens 30 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer vernietig word, deur gate daarin te maak. Bied houer aan vir hersirkulasie of neem na 'n amptelike vullis area. Moenie die houer vir enige ander doel gebruik nie.

GEBRUIKSAANWYSINGS

GEBRUIK SLEGS SOOS AANGEDUI

Verenigbaarheid:

SPOREKILL® se verenigbaarheid met ander landbou chemiese produkte kan beïnvloed word deur faktore soos verdunningswater kwaliteit en produk formulasies. Dit word daarom aanbeveel dat 'n fisiese verenigbaarheid toets altyd eers uitgevoer word voor vermenging. **SPOREKILL®** is in die algemeen nie verenigbaar met gekonsentreerde anioniese chemiese middels nie.

Algemene gebruiksvorskrifte:

- Geen benatters hoef bygevoeg te word nie, **SPOREKILL®** beskik oor sy eie benatting eienskappe.
- Die stabiliteit en werking van **SPOREKILL®** is nie pH afhanklik nie. Indien saam met ander chemiese middels gebruik word volg hierdie middels se pH aanbevelings.
- Tydens na-oes behandeling van avokado, mango, sitrus en tamatie moet vrugte nie vir lang periodes in dompeltent gelaat word nie. Dit kan brandskade van sensitiewe vrugte veroorsaak.
- Let wel, **SPOREKILL®** beheer na-oes bederfsiektes van avokado, mango, sitrus en tamatie geïnduseer deur infeksies wat tydens die wasproses plaasvind. Gebruik van geregistreerde swamdoders vir beheer van na-oes bederfsiektes vanweë boord infeksies moet nog steeds toegepas word.
- Moenie **SPOREKILL®** in warmwater-dompeltenke gebruik nie. Dit kan brandskade aan sensitiewe avokado, mango, sitrus en tamatie vrugte veroorsaak.
- Tydens hewige vermenging kan oormatige skuim vorm. Gebruik anti-skuimproduk "Foam Fighter" indien nodig.
- Skud konsentraat voor gebruik.

TOEDIENINGSHOEVEELHEDE

GEWAS	SIEKTE	DOSIS PER 100 ℓ WATER	OPMERKINGS
Aartappels en Soetpatats	Botrytis Gryskimmels (<i>Botrytis cinerea</i>)	100 mℓ	Dien SPOREKILL ® voorkomend toe, met interalle van 7 dae. NB Begin bespuitings voor die rye toe maak. Onder toestande van hoë siektdruk, sluit 'n sistemiese swamdoder in die spuit program in. Dien 'n minimum van 500 mℓ SPOREKILL ®/ha toe. Verseker deeglike bedekking van loof, bo-, sowel as onderkant van blare.
Saadaartappels Voor-plantbehandeling	Bakteriese vrot en kontaminasie van saadaartappelmoere, wat tydens die was- of dompel- behandeling proses veroorsaak word, deur <i>Pectobacterium (Erwinia) spp.</i>	150 mℓ	Doop moere vir 3-5 minute. Vervang oplossing sodra baie vuil is. Slegs vir behandeling van heel aartappelmoere. Hou SPOREKILL ® konsentrasie soos aanbeveel deur gebruik te maak van "SPOREKILL® Test Kit".
Appels en Pere Na-oes behandeling	Na-oes bederf veroorsaak deur <i>Penicillium expansum</i> .	100 mℓ	Doop of drenk vrugte ná oes of na gewone atmosfeer (G.A.) opberging. Nie vir gebruik na beheerde atmosfeer (B.A.) opberging. Hou vrugte nat vir ten minste 10 minute vir beste resultate. Hou SPOREKILL ® konsentrasie soos aanbeveel deur gebruik te maak van "SPOREKILL® Test Kit".
Aarbeie	Botrytis Gryskimmels (<i>Botrytis cinerea</i>)	100 mℓ	Dien 2 aanwending, in 7 dae interalle, toe voor oes. Dien 'n minimum van 500 mℓ SPOREKILL ®/ha toe. Verseker deeglike bedekking van loof en vrug oppervlaktes.
Avokado Na-oes behandeling	Antraknose, veroorsaak tydens wasproses in dompeltenke deur <i>Colletotrichum gloeosporioides</i> .	100 – 150 mℓ	Doop vrugte vir 3-5 minute in dompeltenk. Gebruik hoër dosis onder toestande wat lei tot hoë siektdruk. Hou SPOREKILL ® konsentrasie soos aanbeveel deur gebruik te maak van "SPOREKILL® Test Kit".
Granate	Botrytis Gryskimmels (<i>Botrytis cinerea</i>)	100 mℓ	Dien SPOREKILL ® voorkomend toe vanaf blom, met interalle van 7 dae. Moenie meer as ses toedienings op 'n seisoen se vrugte toedien nie. Sal ook Alternaria onderdruk.
Mango Na-oes behandeling	Antraknose, veroorsaak tydens wasproses in dompeltenke deur <i>Colletotrichum gloeosporioides</i> .	100 – 150 mℓ	Doop vrugte vir 3-5 minute in dompeltenk. Gebruik hoër dosis onder toestande wat lei tot hoë siektdruk. Hou SPOREKILL ® konsentrasie soos aanbeveel deur gebruik te maak van "SPOREKILL® Test Kit".
Koolgewasse	Donsige meeldou (<i>Hyaloperonospora brassicae</i>)	100 mℓ	Dien SPOREKILL ® voorkomend toe, met interalle van 7 dae. Onder toestande van hoë siektdruk, sluit 'n sistemiese swamdoder in spuit program in. Dien 'n minimum van 500 mℓ SPOREKILL ®/ha toe. Verseker deeglike bedekking van loof, bo-, sowel as onderkant van blare. Moenie meer as 5 keer op koppe of blomkoppe toedien nie. Kan saam met 'n gerigistreerde koper bevattende fungisied in 'n tenk mengsel toegedien word.
Pampoengewasse Tunnel- en Veld produksie (<i>Slegs in Wes-Kaap vir veld produksie</i>)	Poeieragtige meeldou (<i>Sphaerotheca fuliginea & Erysiphe cichoracearum</i>)	100 mℓ	Dien voorkomend toe met 7-12 dae spuit interalle. Onder hoë siektdruk spuit elke 7 dae en sluit sistemiese swamdoder in by program. Verseker deeglike bedekking van beide blaar-oppervlakke. Moet nie SPOREKILL ® meer as 4 keer toedien sodra vrugte teenwoordig is nie.
Soet Rissies	Poeieragtige meeldou (<i>Leveillula sp.</i>)	100 mℓ	Dien SPOREKILL ® voorkomend toe, met interalle van 7 dae. Onder toestande van hoë siektdruk, sluit 'n sistemiese swamdoder in die spuit program in. Dien 'n minimum van 500 mℓ SPOREKILL ®/ha toe. Verseker deeglike bedekking van loof, bo-, sowel as onderkant van blare. Moenie meer as 6 keer op vrugte toedien nie.
Soet Rissies Na-oes behandeling	Sagtevrot (<i>Pectobacterium carotovorum</i>), verhoed infeksie van vrugte in was water.	100 mℓ	Behandel vir 3 minute in was water. Hou SPOREKILL ® konsentrasie soos aanbeveel deur gebruik te maak van "SPOREKILL® Test Kit". Vervang oplossing sodra dit vuil is. Vrugte met beserings (gaatjies en krake) moet nie behandel word nie.
Steenvrugte	Perske krulblaar (<i>Taphrina deformans</i>)	100 mℓ <u>Spuut Volume</u> 1 200 -3000 ℓ/ha	Dien SPOREKILL ® voorkomend toe van ogie-swelstadium tot vrugset in 7 dae interalle. Moenie meer as 5 keer toedien nie. SPOREKILL ® kan in 'n tenk mengsel toegedien word saam met thiram 750 g/kg of 'n geregistreerde koper bevattende swamdoder.
Sitrus Na-oes behandeling	Groen- en Bloukimmels asook Suurvrot, veroorsaak tydens wasproses in dompeltenke, voor-ontgroening-drenk en hoëdruk-sirkulasietenke deur <i>Penicillium digitatum</i> , <i>P. italicum</i> , <i>Galactomyces citri-aurantii</i> (<i>Geotrichum candidum</i>) asook die imazalil-weerstandbiedende <i>Penicillium</i> populasie.	100 – 150 mℓ	Doop vrugte vir 3-5 minute so gou as moontlik ná oes. Gebruik hoër dosis onder toestande wat lei tot hoë siektdruk. Hou SPOREKILL ® konsentrasie soos aanbeveel deur gebruik te maak van "SPOREKILL® Test Kit".
Sitrus Boord toediening (Om die koper en mankoseb ^a dosisse toegedien per sitrus boord te verlaag.) (NB: SPOREKILL ® is nie effektief vir beheer van Swartvlek en Alternaria bruinvlek op sy eie nie.)	Swartvlek veroorsaak deur <i>Phyllosticta citricarpa</i> (<i>Guignardia citricarpa</i>) EN Alternaria bruinvlek veroorsaak deur <i>Alternaria alternata</i>	Tenkmengsel 100 mℓ PLUS 100 g mankoseb ^a OF 100 mℓ PLUS 100 g koperoksichloried ^a OF 100 mℓ PLUS 100 g koperhidroksied ^a [Moet nie pH-buffers in koperbevattende tenkmengsels gebruik nie.]	Swartvlek Dien vier bespuitings voorkomend toe met 25-30 dae spuit interalle. Eerste toediening moet voor 15 Oktober geskied. Verseker deeglike bedekking van beide blaar- en vrug-oppervlaktes met hoë volume toediening. Alternaria Bruinvlek Begin toediening tydens eerste groei en herhaal elke 30 dae tot en met oes. Verseker deeglike bedekking van beide blaar- en vrugoppervlaktes met hoë volume toediening. Die aantal toedienings (op tot 7) is onderhewig aan die weersomstandighede gedurende Februarie – April. Tydens nat omstandighede is ekstra toedienings nodig om infeksies te onderdruk.
Sitrus Stam- en takbehandeling	Phytophthora stam en –tak kanker (<i>Phytophthora citrophthora</i>)	100 mℓ PLUS 200 g captab ^a	Dien toe ná oes deur gerigte bespuiting van stam en onderste besette takke met handspruit of rugsakspuit. Gebruik 1 – 2 ℓ spuitmengsel per boom en moenie vrugte raak spuit indien teenwoordig. Herhaal behandeling elke 3 maande. Let wel: Die siekte sal nie beheer word in bome met stamme wat reeds 60 % of meer geringeleer is deur die patogeen nie.
Tamaties	Poeieragtige meeldou (<i>Leveillula taurica</i>)	100 mℓ	Dien SPOREKILL ® voorkomend toe, met interalle van 7 dae. Onder toestande van hoë siektdruk, sluit 'n sistemiese swamdoder in die spuit program in. Dien 'n minimum van 500 mℓ SPOREKILL ®/ha toe. Verseker deeglike bedekking van loof, bo-, sowel as onderkant van blare. Moenie meer as 4 keer op vrugte toedien nie. SPOREKILL ® bespuitings kan die aanvang van laatros (<i>Phytophthora infestans</i>) vertraag.
Tamaties Na-oes behandeling	Suurvrot, veroorsaak tydens wasproses in dompeltenke deur <i>Geotrichum sp.</i>	150 mℓ	Doop vrugte vir 3-5 minute in dompeltenk. Hou SPOREKILL ® konsentrasie soos aanbeveel deur gebruik te maak van "SPOREKILL® Test Kit". Vervang oplossing sodra dit baie vuil is
Uie en Knoffel	Alternaria vlek (<i>Alternaria porri</i>) EN <i>Botrytis spp.</i>	100 mℓ	Dien SPOREKILL ® voorkomend toe, met interalle van 7 dae. Onder toestande van hoë siektdruk, sluit 'n sistemiese swamdoder in die spuit program in. Dien 'n minimum van 500 mℓ SPOREKILL ®/ha toe. Verseker deeglike bedekking van loof, bo-, sowel as onderkant van blare.

			Moenie meer as 5 keer toedien nie.
Wingerd Voortplantingsmateriaal in kwekerye	Infeksie van wingerd voortplantingsmateriaal deur terugsterwingspatogene soos <i>Phaeoaniella chlamydospora</i> , <i>Phaeoacremonium</i> , <i>Botryosphaeria</i> en <i>Phomopsis</i> spp.	150 ml	Onderstok en Bo-stok entjie behandeling Na insameling en verwerking en voor koelopberging week vir 1 uur in SPOREKILL [®] oplossing. Na koelopberging, week vir 10 minute een dag voor enting. Hierdie behandeling kan ook in afgekoelde water na die warmwater behandeling gedoen word. Voor-plant behandeling Na kallusvorming en direk voor plant doop vir 5 sekondes in SPOREKILL [®] oplossing. Algemene ontsmetting Vir ontsmetting van enting gereedskap, tafels en werksoppervlaktes, enting-skuur, kalluskiste, ens. Vir beste resultate, was oppervlaktes eers skoon voor ontsmetting en hou dan nat vir 10 minute.
Wyndruiwe (NB: SPOREKILL [®] is nie effektief vir beheer van donsige skimmel op sy eie nie.)	Donsige skimmel veroorsaak deur <i>Plasmopara viticola</i> .	Tenkmengsel 100 ml PLUS 100 g mankoseb ^a OF 100 ml PLUS 250 g koperoksichloried ^a OF 100 ml PLUS 250 ml koperammonium-asetaat ^a [Moet nie pH-buffers in koperbevattende tenkmengsels gebruik nie]	Voor Blom Dien eerste bespuiting toe wanneer jong lote 'n lengte van 10cm bereik het. Herhaal met intervale van 7 – 10 dae, afhangende van weerstoestand. Dien toe as 'n hoë volume bespuiting teen 500 – 700 l spuitmengsel per hektaar. Blomtyd tot 80% kappiesval Dien slegs toe as blomperiode langer as 14 dae is. Dien toe as hoë volume bespuiting teen 750 – 1000 l spuitmengsel per hektaar. Na Blom Dien twee verdere bespuitings toe met intervale van 7 – 14 dae, afhangende van weerstoestand. Dien toe as 'n hoë volume bespuiting teen 1000 – 1500 l spuitmengsel per hektaar.
Wortels en Witwortels Voor-oes blaar bespuiting	Poeieragtige meeldou (<i>Erysiphe heraclei</i>)	100 ml	Dien voorkomend toe of sodra eerste simptome van siekte waargeneem word. Herhaal met intervale van 7 – 10 dae, afhangende van siektedruk. Dien toe as 'n hoë volume bespuiting teen 300 – 500 l spuitmengsel per hektaar afhangende van plant grootte. Verseker deeglike bedekking van alle bogrondse loof (blare).

SpKISA/NAM/BOTACT36-016

^aGebruik slegs produkte saam met **SPOREKILL**[®] wat geregistreer is teen die spesifieke siekte.

Captab 500 g/kg WP, Thor (L7691)
Mankoseb 800 g/kg WP
Koperoksichloried 850 g/kg WP
Koperhidroksied 770 g/kg WP
Koperammoniumasetaat 316 g/l SL
Thiram 750 g/kg

SPOREKILL[®] is 'n geregistreerde handelsmerk van **ICA Laboratories cc.**