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HYGROTECH

# COPPER COUNT - N

Reg. No. L2602 Act 36 of 1947

## A COPPER CONTAINING CONTACT FUNGICIDE SOLUTION FOR THE CONTROL OF DISEASES AS INDICATED.

**ACTIVE INGREDIENTS:**
Copper ammonium acetate.....316 g/ℓ
(Copper equivalent 93 g/ℓ)

**REGISTRATION HOLDER:**
HYGROTECH PROPERTIES (PTY) LTD
Reg. No. 84/00638/07
1 Gerhard Braak Street, Pyramid, 0120
P.O. Box 17220, Pretoria North, 0116

**DISTRIBUTED BY:**
KIRCHHOFFS
P.O. Box 3691, Honeydew, 2040, South Africa
Tel: (011) 794 2316

**WARNINGS**
**ALLOW THE FOLLOWING NUMBER OF DAYS BETWEEN LAST APPLICATION AND HARVEST**

| | | | |
|---|---|---|---|
| Apples | 14 days | Grapes (Wine) | 21 days |
| Avocados | 14 days | Mangoes | 14 days |
| Beans | 3 days | Peaches | 14 days |
| Cucifierae | 3 days | Potatoes | 14 days |
| Cucurbits | 3 days | Tomatoes | 3 days |
| Grapes (Table) | 4-6 weeks | | |

Toxic when swallowed.
Keep out of reach of children, animals and uninformed persons.
Store in a cool place away from food and foodstuffs.

**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; compatibility with other substances not indicated on the label and the appearance 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 animals 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 or registration holder in the event of any uncertainty.**

**PRECAUTIONS**
Do not inhale spray mist. Prevent contamination of food, feedstuffs, food utensils and drinking water. Prevent drift onto other crops, grazing, rivers, dams and areas not under treatment. Clean applicator thoroughly after use. Dispose of wash water where it will not contaminate food, grazing or water. Rinse empty container three times with a volume of water equal to a minimum of 10% of that of the spray tank. Add the rinsings to the contents of the spray tank before destroying the container. Destroy empty container and do not re-use for any other purpose.

**DIRECTIONS FOR USE  Use only as directed**

**COMPATIBILITY:** The stability and efficacy of Copper Count-N is pH dependent and the product should preferable not be used together with acidifying agents or phosphorous agents. For optimum results the final tank-mix should be at a pH of 7.

**IMPORTANT**
It is essential that Copper Count-N be kept agitated throughout the entire mixing and spraying operation. Copper Count-N must be applied within one hour of the product being diluted with water. All containers containing the concentrated product must be sealed properly once opened to prevent the loss of ammonia and the possible formation of crystals. Copper Count-N is a preventative spray and applications must be carried out before or just as the first signs of the disease are noticed.

| CROP & PEST | DOSAGE PER 10ℓ WATER | REMARKS (SPRAYING PROGRAM) |
|---|---|---|
| **Apples**<br>Scab *(Venturia inaequalis)* | 25mℓ | Spray at green tip stage. Two applications seven days apart. |
| **Avocados**<br>Cercospora spot<br>Anthracnose *(Colletotrichum)*<br>Sooty blotch | 50 mℓ | Use Copper Count-N preferably during low infestations and preferably as a last spray in a spray programme. |
| **Beans**<br>Bacterial blight<br>(Common and halo) | 50 mℓ | Apply every 7-14 days depending on disease pressure. Spray immediately after heavy rains, hail or dust storms. |
| **Cabbages**<br>Downy mildew<br>*(Peronospora parasitica)* | 50 mℓ | Apply under pressure till run-off. Depending on disease development, weekly sprays can be applied. |
| **Cucurbits**<br>Downy mildew<br>*(Pseudoperonospora cubensis)* | 40 mℓ | Spray at an early vineing stage or when infestation is expected. Only use as a preventative spray. After the disease has established itself a systemic fungicide must be used. Do not spray when plants are under stress eg. Hot, dry conditions. |
| **Grapes**<br>**1. Nurseries**<br>Downy mildew<br>*(Plasmopara viticola)* in nurseries | 50 mℓ | Spray approximately 10 litre per $100m^2$. Spray at least 4 times at weekly intervals. Use as a preventative spray. |
| **2. Table & Wine grapes**<br>Downy mildew *(Plasmopara viticola)*<br>Powdery mildew | 50 mℓ | Apply as a preventative spray at the post blossom stage every 7-10 days depending on weather conditions. Apply 10-15 litre spray mixture per $100m^2$. |
| **Mangoes**<br>Bacterial spot<br>*(Xanthomonas campestris pv. mangifera eindicae)* | 50 mℓ | Apply at 2-4 week intervals from just after fruit set until harvest. The product is especially suited for application as the last two sprays at the end of a spray programme. |
| **Peaches**<br>Gum spot<br>*(Stigmina carpophila)* | 40 mℓ | Apply at ± 50% leaf drop stage. Add 20g spray lime to each 10 litre of spray mix. |
| Leaf curl<br>*(Traphrina deformans)* | 150 mℓ | In orchard where leaf curl infection is high apply first application at 90% leaf drop and again at budswell. |
| **Potatoes**<br>Early blight | 50 mℓ | Commence spraying before or just when first symptoms are noticed. Apply every 7-10 days depending on weather conditions which favour development of this disease. Depending on plant size apply at a rate of 5 to 15 litre spray per $100m^2$. Ensure that both upper and lower leaf surfaces are treated. Repeat application after more than 13mm rain or overhead irrigation. |
| Late blight | 50 mℓ + 20g mancozeb | Apply combination as a preventative spray at 7-10 day intervals. Depending on plant size apply at a rate of 5 to 15 litre spray per $100m^2$. Ensure that both upper and lower leaf surfaces are tested. Repeat application after more than 13 mm rain or overhead irrigation. |
| **Roses**<br>Black spot<br>Downy mildew<br>Rust | 50 mℓ<br>(5mℓ per 1ℓ water) | Wet the leaves thoroughly. Spray every second week. Use a systemic fungicide as a curative spray if disease is already in progress and follow up with Copper Count-N. |
| **Tomatoes**<br>Early blight | 50 mℓ | Start application shortly after transplant when plants are 15cm high and before symptoms appear. Apply every 7-10 days depending on weather conditions favourable for development of the disease. Depending on plant size apply at a rate of 5 to 20 litre spray per $100m^2$. Ensure that both upper and lower leaf surfaces are treated. Repeat application after more than 13mm rain or overhead irrigation. |
| Bacterial spot<br>Bacterial speck | 50 mℓ | Apply as a preventative spray at 7-10 day intervals. Depending on plant size apply at a rate of 5 to 15 litre spray per $100m^2$. Ensure that both upper and lower leaf surfaces are treated. Repeat application after more than 13mm rain or overhead irrigation. |
| Bacterial speck<br>(on seedlings) | 50 mℓ | Spray seedlings at weekly intervals with a hollow cone spray nozzle. |

Composite

HYGROTECH

# COPPER COUNT - N

Reg. Nr. L2602 Wet 36 of 1947

## 'N KOPERBEVATTENDE KONTAKSWAMDODER OPLOSSING VIR DIE BEHEER VAN SIEKTES SOOS AANGEDUI.

**AKTIEWE BESTANDDEEL:**
Koperammoniumasetaat.....316 g/ℓ
(Koper ekwivalent 93 g/ℓ)

**REGISTRASIEHOUER:**
HYGROTECH PROPERTIES (EDMS) BPK
Reg. Nr. 84/00638/07
Gerhard Braak Straat Nr1, Pyramid, 0120
Posbus 17220, Pretoria Noord, 0116

**VERSPREI DEUR:**
KIRCHHOFFS
Posbus 3691, Honeydew, 2040, Suid Afrika
Tel: (011) 794 2316

**WAARRSKUWINGS**
**LAAT DIE VOLGENDE DAE VERLOOP TUSSEN LAASTE TOEDIENING EN OES**

| | | | |
|---|---|---|---|
| Appels | 14 dae | Druiwe (Wyn) | 21 dae |
| Avokados | 14 dae | Veselperskes | 14 dae |
| Bone | 3 dae | Perskes | 14 dae |
| Koolgewasse | 3 dae | Aartappels | 14 dae |
| Pampoengewasse | 3 dae | Tamaties | 3 dae |
| Druiwe (Tafel) | 4-6 weke | | |

Giftig wanneer ingesluk word.
Hou buite bereik van kinders, oningeligte persone en diere.
Bêre in 'n koel plek weg van voedsel en voedingstowwe.

**Alhoewel hierdie middel omvattend onder 'n 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 klimaats- en bergingstoestande; verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die siekte 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 effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer of registrasiehouer in die geval van enige onsekerheid.**

**VOORSORGMAATREËLS**
Moenie die spuitmis inasem nie. Voorkom besoedeling van voedsel, voer, eetgerei en drinkwater. Voorkom wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en areas nie onder behandeling nie. Maak spuitapparaat deeglik skoon na gebruik. Gooi waswater op 'n plek weg waar dit nie voedsel, weiveld of water sal besoedel nie. Spoel leë houer drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houer. Gooi die spoelwater by die inhoud van die inhoud van die spuittenk voordat die houer vernietig word. Vernietig leë houer en moet vir geen ander doel gebruik nie.

**GEBRUIKSAANWYSINGS  Gebruik slegs soos aangedui**

**VERENIGBAARHEID:** Die stabiliteit en werking van Copper Count-N is afhanklik van die pH van die oplossing en die produk moet verkieslik nie saam met versuringsmiddels of fosforbevattende bymiddels gebruik word nie. Vir optimum werking moet die finale tenkmengsel by 'n pH van 7 wees.

**BELANGRIK**
Dit is belangrik dat Copper Count-N gedurende die hele meng- en spuitproses geroer word. Copper Count-N moet toegedien word binne een uur nadat dit verdun is met water. Alle houers wat die gekonsentreerde produk bevat en oopgemaak is, moet weer deeglik verseël word om die verlies van ammoniak en die moontlike vorming van kristalle te verhinder. Copper Count-N is 'n voorkomende middel en toediening moet gedoen word voor of net na die eerste tekens van die siekte opgemerk word.

| GEWAS & SIEKTE | DOSIS PER 10ℓ WATER | OPMERKINGS (SPUITPROGRAM) |
|---|---|---|
| **Appels**<br>Skurfsiekte *(Venturia inaequalis)* | 25mℓ | Spuit 2 keer 7 dae uitmekaar op die groenpunt stadium. |
| **Avokados**<br>Cercospora vlek<br>Antraknose *(Colletotrichum)*<br>Roet skimmel | 50 mℓ | Gebruik Copper Count-N verkieslik gedurende lae infestasie. Is veral geskik vir die laaste bespuiting in 'n spuitprogram. |
| **Bone**<br>Bakteriese vlek<br>(Gewone en halo) | 50 mℓ | Spuit die plante elke 7-10 dae afhangende van die siektedruk. Spuit dadelik weer na 'n reënbui, haelbui of na 'n stofstorm. |
| **Koolgewasse**<br>Donsige skimmel<br>*(Peronospora parasitica)* | 50 mℓ | Dien toe onder druk tot punt van afloop. Afhangende van die siektedruk kan weekliks gespuit word. |
| **Pampoengewasse (Rankgewasse)**<br>Donsige skimmel<br>*(Pseudoperonospora cubensis)* | 40 mℓ | Spuit met vroeë rankstadium of wanneer vermoed word dat siekte mag voorkom. Spuit slegs voorkomend. Gebruik 'n sistemiese middel indien die siekte reeds gevestig is. Moenie tydens warm droë stremmings toestande spuit nie. |
| **Druiwe**<br>**1. Kwekerye**<br>Donsige skimmel<br>*(Plasmopara vitricola)* in kwekerye | 50 mℓ | Dien sowat 10 liter spuitmengsel per $100m^2$ toe. Spuit minstens 4 keer teen weeklikse intervalle. Gebruik as 'n voorkomende spuitmiddel. |
| **2. Tafel en Wyndruiwe**<br>Donsige skimmel *(Plasmopara vitricola)*<br>Poeieragtige meeldou | 50 mℓ | Spuit voorkomend na die blomstadium. Dien toe elke 7-10 dae afhangende van weerstoestande teen 10-15 liter spuitmengsel per $100m^2$. |
| **Veselperskes**<br>Bakteriese vlek<br>*(Xanthomonas campestris pv. mangifera eindicae)* | 50 mℓ | Dien in 2-4 week intervalle toe vanaf vroeë vrugtestadium. Veral geskik vir die laaste 2 bespuitings in 'n spuitprogram. |
| **Perskes**<br>Gomvlek<br>*(Stigmina carpophila)* | 40 mℓ | Dien toe op ± 50% blaarval stadium. Voeg 20g spuitkalk by elke 10 liter spuitmengsel. |
| Leaf curl<br>*(Traphrina deformans)* | 150 mℓ | In boorde waar krulblaar infeksies hoog is, dien eerste toediening by 90% blaarval toe en weer op ogieswelstadium. |
| **Aartappels**<br>Vroeë roes | 50 mℓ | Begin toediening net voordat of wanneer eerste simptome verskyn. Dien elke 7-10 dae toe afhangende van gunstige weerstoestande vir die siekte. Dien 5 tot 15 liter spuitmengsel per $100m^2$ toe afhangende van die plantgrootte. Verseker dat beide oppervlakke van blare bedek word. Herhaal toediening nadat 13mm of meer reën geval het of sprinkelbesproeiing toegepas is. |
| Laatroes | 50 mℓ + 20g mancozeb | Dien die kombinasie met 7-10 dae intervalle toe as 'n voorkomende bespuiting. Dien 5 tot 15 liter spuitmengsel per $100m^2$ toe afhangende van die plantgrootte. Verseker dat beide oppervlakke van blare bedek word. Herhaal toediening nadat 13mm of meer reën geval het of sprinkelbesproeiing toegepas is. |
| **Rose**<br>Swartvlek<br>Donsige skimmel<br>Bruinroes | 50 mℓ<br>(5mℓ per 1ℓ water) | Benat die blare deeglik. Spuit elke tweede week. Gebruik 'n sistemiese swammiddel as 'n korrektiewe bespuiting as die siekte alreeds posgevat hat. Volg daarna op met Copper Count-N. |
| **Tamaties**<br>Vroeë roes | 50 mℓ | Begin toediening kort na saailinge verplant is en ±150mm hoog staan en voordat simptome opgemerk word. Herhaal met 7-10 dae intervalle afhangende van weerstoestande wat die siekte begunstig. Dien 5 tot 20 liter spuitmengsel per $100m^2$ toe afhangende van die plantgrootte. Verseker dat beide oppervlakke van blare bedek word. Herhaal toediening nadat 13mm of meer reën geval het of sprinkelbesproeiing toegepas is. |
| Bakteriese vlek | 50 mℓ | Dien elke 7-10 dae toe as 'n voorkomende bespuiting. Dien 5 tot 15 liter spuitmengsel per $100m^2$ toe afhangende van die plantgrootte. Verseker dat beide oppervlakke van blare bedek word. Herhaal toediening nadat 13mm of meer reën geval het of sprinkelbesproeiing toegepas is. |
| Bakteriese vlek<br>(op saailinge) | 50 mℓ | Bespuit die saailinge weekliks met 'n holkeëltipe spuitstuk. |