

# KARATHANE® STAR 350 EC

FUNGICIDE

Registration Number/Registrasie Nommer. L8640 Act/Wet 36/1947  
N-AR-1450

**READ THE LABEL BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	29	FUNGICIDE
AN EMULSIFIABLE CONCENTRATE FUNGICIDE FOR THE CONTROL OF POWDERY MILDEW IN GRAPES.		'N EMULGEERBARE KONSENTRAAT SWAMDODER VIR DIE BEHEER VAN POEIERAGTIGE SKIMMEL OP DRUIWE.



**WARNING**

**HAZARD STATEMENTS:**

Flammable liquid and vapour.  
Harmful if swallowed.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
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 protection/face protection.  
IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.  
IF ON SKIN: Wash with plenty of water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Dispose of contents/container in accordance with applicable regulations.

**Active Ingredient / Aktiewe Bestanddeel**

Meptyldinocap ..... 350 g/L ..... Meptieldinokap  
Contents ..... L ..... Inhoud

**REGISTRATION HOLDER / REGISTRASIEHOUER**  
CORTEVA AGRISCIENCE RSA (PTY) LTD / (EDMS) BPK  
REG NO 1991/003030/07

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Batch Number .....  ..... Lotnommer  
Date of Manufacture. .... Vervaardigingsdatum  
Expiry Date ..... Vervaldatum

UN NO: 1993

Poisons Helpline: +27(0)861-555-777  
Local Emergency No: +27(0)82-895-0621 (SA only)  
24 Hour Emergency Tel No: +32-3-575-5555  
Information Hotline Tel No: +27(0)12 683-5700

**KARATHANE® STAR 350 EC/2023-05-08**

## **WARNINGS:**

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- Very toxic to aquatic life with long lasting effects.

**Allow 21 days between last application and harvesting of wine grapes.**

Handle with care.

Harmful by skin contact, ingestion, and inhalation.

May cause skin and eye irritation.

Vapours may cause drowsiness and dizziness.

Toxic to fish and other aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Flammable - keep away from naked flames.

Store in a cool place away from food and feedstuffs.

Keep out of reach of children, uninformed persons, and animals.

**KARATHANE® STAR 350 EC** applied to wet plants or under cold or slow drying conditions, especially in combination with adjuvants, may result in chlorotic blemishes on leaves.

### **DISCLAIMER:**

***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 to 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 the 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:**

### **PRECAUTIONARY STATEMENTS:**

- Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
- IF ON SKIN: Wash with plenty of water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Dispose of contents/container in accordance with applicable regulations.

Do not inhale spray mist and prevent eye and skin contact.  
 Wear suitable protective clothing including gloves and eye protection.  
 Do not re-use protective clothing before it has been washed.  
 Wash with soap and water after use. Do not eat, drink, or smoke while mixing, applying or before having washed hands and exposed skin.  
 Clean applicator after use and dispose of wash water where it will not contaminate grazing, rivers, or dams.  
 Rinse empty container three times with clean water equal to at least one tenth of the volume of the container. Add rinsate to the contents of the spray tank. Destroy empty container by perforation and flattening and do not use for any other purpose.  
 Prevent contamination of food, feed stuffs, drinking water and eating utensils.  
 Prevent spray drift onto other crops, grazing, rivers, and dams.

**RELEVANT SUBSTANCES:**

<b>COMPONENT</b>	<b>CAS No.</b>	<b>Concentration (% w/w)</b>
Meptyldinocap	131-72-6	35,59
Hydrocarbons, C10, aromatics, <1% naphthalene	1189173-42-9	>= 50 - < 60
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs, calcium salts	68953-96-8	>= 3 - < 10

**FIRST AID TREATMENT:**

**Protection to first aiders**

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

**Ingestion**

Do not induce vomiting. Drink large amounts of water and call a physician. The decision of whether to induce vomiting or not should be made by a physician.

**Eye contact**

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control centre or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.

**Skin contact**

Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Suitable emergency safety shower facility should be available in work area.

**Inhalation**

Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration, if by mouth-to-mouth use rescuer protection (pocket mask etc). Call a poison control centre or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

## **SYMPTOMS OF HUMAN POISONING**

Harmful by inhalation.

Irritating to eyes and skin.

May cause sensitization by skin contact.

Harmful: danger of serious damage to health by prolonged exposure if swallowed. May cause harm to the unborn child.

Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

## **NOTE TO PHYSICIAN**

Supportive care. Treatment based on judgement of physician in response to symptoms of patient. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

## **DIRECTIONS FOR USE:**

**Use only as directed**

## **COMPATIBILITY**

**KARATHANE® STAR 350 EC** is compatible with most products commonly used in vineyards but should not be mixed with Bordeaux mixture, zinc sulphate or lime sulphur and must never be mixed with summer or winter oils. When mixed with endosulfan, copper oxychloride, hexaconazole, penconazole, pyrifenoxy, foliar fertilizers or trace elements, blemishing of grape berries may occur.

## **MIXING INSTRUCTIONS**

Shake the container well before use. The spray tank should be half filled with clean water before adding the required amount of **KARATHANE® STAR 350 EC**. Where a combined powdery mildew/downy mildew programme is followed for grapes, wettable powders should be mixed to a cream with a small quantity of water before being added prior to the **KARATHANE® STAR 350 EC** in the spray tank. Top up to required level while running the agitator. Ensure that agitation in the spray tank is adequate during mixing, transportation, and spraying. Mix and use immediately. Do not allow to stand for any length of time.

**Note: KARATHANE® STAR 350 EC applied to wet plants or under cold or slow drying conditions, especially in combination with adjuvants, may result in chlorotic blemishes on leaves.**

CROP/DISEASE	DOSE/100 litre WATER	REMARKS
<b>WINE GRAPES</b> Powdery mildew	40 ml	High volume application. Commence spraying when shoots are 10 cm long and repeat at 10 - 14 day intervals. NOTE: Apply 400 – 1000 litres spray mixture per hectare. The volume applied per hectare should be adapted to the leaf area present.
<b>TABLE GRAPES</b> Powdery mildew	40 ml	<b>Do not apply to table grapes at any stage when fruit is on the vine.</b> <b>Use only in the pre-blossom and post harvest periods.</b> High volume application: 400 – 1500 litres spray mixture per hectare.

**Local emergency No: +27(0)82-895-0621 (SA only)**  
**24 Hour emergency Tel No: +32-3-575-5555**  
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## WAARSKUWINGS

### **RISIKOVERKLARING (S):**

Vlambare vloeistof en dampe.

Skadelik indien ingesluk word.

Mag moontlike allergiese vel reaksie veroorsaak.

Dampe mag lomerigheid en duiseligheid veroorsaak.

Uiters giftig vir akwatiese flora en fauna, met langdurige effek. Uiters Giftig vir visse en ander waterorganismes. Mag 'n langtermyn nadelige uitwerking op die waterlewe hê.

**Laat 21 dae toe tussen laaste toediening en oes van wyndruiwe.**

Hanteer versigtig.

Skadelik by inname, velkontak en inaseming.

Vlambaar - hou weg van oop vlamme.

Bêre op 'n koel plek weg van voedsel en voer.

Hou buite bereik van kinders, oningeligte persone en diere.

Wanneer **KARATHANE® STAR 350 EC** op nat plante of onder koue, stadig drogende toestande toegedien word, veral in kombinasie met benattingsmiddels, mag chlorotiese vlekke op blare voorkom.

### **VRYWARING:**

***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 klimaats- en bergingstoestande, kwaliteit van verdunningswater, 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 in die geval van enige onsekerheid.***

## VOORSORGMATREËLS

### **VOORKOMENDE VERKLARING (S):**

Hou weg van hitte, warm oppervlaktes, vonke, oop vlamme en ander ontstekingsbronne. Moenie rook nie.

Dra toepaslike beskermende kleding, handskoene en oogbeskerming.

Indien ingesluk: Ontbied 'n gifbeheersentrum of geneesheer indien persoon nie wel is nie.

Indien op vel: Was vel deeglik met genoeg water.

Indien in die oë: Spoel versigtig en vir 'n hele paar minute met water uit. Vewyder kontaklense indien moontlik. Hou aan met spoel.

Raak ontslae van houer en/of inhoud in ooreenstemming met toepaslike regulasies.

Moet nie stof of spuitnewel inasem nie en vermy oog en velkontak.

Moet nie beskermende kleding weer gebruik voordat dit gewas is nie.

Was met seep en water na gebruik. Moet nie eet, drink of rook terwyl middel gemeng of toegedien word of voordat hande en blootgestelde vel gewas is nie.

Maak spuittoestel na gebruik skoon en raak ontslae van die spoelwater waar dit nie gewasse, weidings of water sal besoedel nie.

Spoel leë houer drie keer uit met 'n volume skoon water gelyk aan minstens een tiende van die volume van die houer. Voeg die spoelwater by die inhoud van die spuittenk. Vernietig leë houer deur gate in te kap en plat te druk en moet nie vir enige ander doel gebruik nie.

Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.

Vermy wegdrywing van spuitnewel na ander gewasse, weiding, riviere en damme.

### **RELEVANTE STOWWE:**

<b>KOMPONENT</b>	<b>CAS No.</b>	<b>Konsentrasie (% w/w)</b>
Meptieldinokap	131-72-6	35,59
Koolwaterstowwe, C10, aromatiese, <1% naftaleen	1189173-42-9	>= 50 - < 60
Benseensulfonsuur, mono-C11-13-vertakte alkielderivate, kalium soute	68953-96-8	>= 3 - < 10

## NOODHULPBEHANDELING

### **Beskerming aan noodhulpers**

Noodhulpers moet eerstens aandag aan hul eie veiligheid gee en ook die aanbevole beskermende kleding (chemiese weerstand handskoene, spatbeskerming) gebruik.

Moet nooit vloeistowwe gee aan of braking induseer by 'n persoon wat bewusteloos is of stuiptrekkings het nie.

### **Inname:**

Moet nie braking induseer nie.

Drink groot hoeveelhede water en ontbied 'n geneesheer. Die besluit om braking aan te help moet deur 'n mediese praktisyn gemaak word.

### **Oogkontak:**

Hou oë oop en spoel stadig en sagkens met water vir 15-20 minute. Verwyder kontaklense, indien gedra word, na die eerste 5 minute, gaan voort om oë te spoel..Spoel oë daarna vir nog ten minste 15 minute met water. Verkry dadelik mediese aandag, verkieslik van 'n oogkundige. 'n Geskikte nood oog was fasiliteit behoort by werkarea te wees.

### **Velkontak:**

Trek besoedelde klere uit. Was vel dadelik met seep en baie water, vir ten minste 15 minute. Ontbied 'n gifbeheersentrum of geneesheer vir behandelingsadvies. Was besoedelde klere voor hergebruik. Skoene en ander leer items wat nie ontsmet kan word nie, moet behoorlik vernietig word. 'n Behoorlike stortfasiliteit behoort by werksarea beskikbaar te wees.

**Inaseming:** Verwyder persoon na vars lug. Raadpleeg 'n mediese praktisyn.

## **SIMPTOME VAN MENSLIKE VERGIFTIGING**

Skadelik deur inaseming.

Irriterend vir oë en vel.

Mag sensitering van vel veroorsaak.

Skadelik: Gevaar van ernstige skade tot gesondheid indien inname oor verlengde tydperk plaasvind.

Mag skade aan ongebore fetus veroorsaak.

Skadelik: Mag longskade veroorsaak indien inname mondelings plaasvind. Dampe mag duiseligheid en lomerigheid veroorsaak.

## **NOTA AAN GENEESHEER:**

Behandeling moet gebaseer word op die dokter se interpretasie van die simptome. Indien maagspoeling oorweeg word, word endotracheale en/of oesophageale beheer aanbeveel. Gevaar van long aspirasie (verwydering van vog), moet opgeweeg word teenoor toksisiteit, indien oorweeg word om die maag leeg te maak. Ondersteunende versorging word aanbeveel.

**GEBRUIKSAANWYSINGS:**      **Gebruik slegs soos aangedui**

## **VERENIGBAARHEID**

**KARATHANE® STAR 350 EC** is mengbaar met die meeste middels in algemene gebruik in wingerde maar moet nie met Bordeauxmengsel, sink sulfaat of kalkswael gemeng word nie en moet nooit met somer of winter olies gemeng word nie. Wanneer met endosulfan, koperoksichloried, heksakonasool, penkonasool, pirifenoks, blaarvoedingsmiddels of spoorelement mengsels gemeng word, kan vlekke op druiwe voorkom.



## MENGINSTRUKSIES

Skud die houer voor gebruik.

Die spuittenk moet halfvol met skoon water gemaak word waarna die vereiste hoeveelheid **KARATHANE® STAR 350 EC** in die tenk gevoeg word. Waar 'n gekombineerde poeieragtige skimmel/donsige skimmel program op wingerd gevolg word, moet benatbare poeiers eers vooraf met 'n klein bietjie water tot 'n room vermeng word en voor die **KARATHANE® STAR 350 EC** in die spuittenk gevoeg word. Roer aanhoudend terwyl voldoende water bygevoeg word om die verlangde spuitvolume te verkry. Roer aanhoudend gedurende meng, vervoer en toediening. Meng en gebruik onmiddellik. Moet nie die mengsel vir lang periodes in spuittenk laat staan nie.

**Opmerking: Wanneer KARATHANE® STAR 350 EC op nat plante of onder koue, stadig drogende toestande toegedien word, veral in kombinasie met benattingsmiddels, mag chlorotiese vlekke op blare voorkom.**

GEWAS/SIEKTE	DOSIS/ 100 L WATER	OPMERKINGS
<b>WYNDRUIWE</b> Poeieragtige skimmel	40 ml	Hoë volume toediening. Begin met toediening wanneer die lote 10 cm lank is en herhaal met tussenposes van 10 - 14 dae. NOTA: Dien 400 - 1000 liters spuitmengsel per hektaar toe. Die volume spuitmengsel / ha wat toegedien word, moet aangepas word volgens die blaaroppervlakte teenwoordig.
<b>TAFELDRUIWE</b> Poeieragtige skimmel	40 ml	<b>Moet nie op tafeldruiwe toegedien word in enige stadium wanneer vrugte teenwoordig is nie.</b> Gebruik slegs in die voorblom en na-oes periodes. Hoë volume toediening - 400 tot 1500 liters spuitmengsel/hektaar.

**Plaaslike noodnommer: +27(0)82-895-0621 (slegs SA)**  
**24 Uur Nood Tel No: +32-3-575-5555**  
**Inligtingsnoodlyn: Tel No: +27(0)12 683-5700**