



KEEPER 720 SC

Reg. No. L10677, Act No. 36 of 1947 | Reg. Nr. L10677, Wet Nr. 36 van 1947

Read the label before use
Keep out of reach of children and animals

RESTRICTED USE AGRICULTURAL REMEDY

THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND AS DIRECTED ON THIS LABEL.

A suspension concentrate contact fungicide for the preventive control of the fungal diseases mentioned on the crops and ornamentals listed.

'n Suspensie konsentraat kontak swamdoder vir die voorkomende beheer van die swamsiektes vermeld op die genoemde gewasse en sierplante.



Danger

Hazard Statements

May cause an allergic skin reaction.
Causes serious eye damage.
Fatal if inhaled.



May cause respiratory irritation.

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

Precautionary Statements

Do not breathe dust/fume/gas/mist/ vapours/spray.



Wear protective gloves/eye protection/face protection.

Use only outdoors or in a well-ventilated area



FRAC FUNGICIDE GROUP CODE M5

ACTIVE INGREDIENT:

Chlorothalonil (phthalonitrile) 720 g/ℓ

Manufactured for and registered by/Vervaardig vir en
geregistreer deur:

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

P. O. Box/Posbus 82021, Southdale, 2135

Tel: 031-764 3011

FRAC SWAMDODER GROEPKODE M5

AKTIEWE BESTANDEEL:

Chlorotalonil (phthalonitriël) 720 g/ℓ

BATCH NUMBER LOT NOMMER	
DATE OF EXPIRY VERVAL DATUM	

UN No./VN Nr. 3082

NET CONTENTS /
NETTO INHOUD

20ℓ

Emergency No. Tygerberg Poison Centre (0861-555-777)

WARNINGS:

Allow the following minimum number of days between the last application and harvesting or grazing:

Cruciferae/Brassicas vegetables (Broccoli, Brussels sprouts, cabbage, Chinese cabbage, red cabbage, Savoy, cauliflower, collards, kales, kohlrabi, mustard greens)	14 days
Groundnuts hay & Bean hay:	42 days
Tree nuts (almonds, chestnuts, hazelnuts, macadamia nuts, pecan nuts, walnuts, pistachio nuts, coconuts, Brazil nuts & Pine nuts)	120 days
Potato	3 days
Beans	3 days
Tomato	3 days
Grasses (Seed production).....	14 days

- May cause an allergic skin reaction.
- Causes serious eye damage.
- Fatal if inhaled.
- Very toxic to aquatic life with long lasting effects.
- Suspected of causing cancer.
- May cause respiratory irritation.
- Handle product with caution.
- Harmful if swallowed and inhaled.
- Severe irritant to eyes.
- Moderate to severe irritant to skin.
- Store in a cool, dry and well-ventilated place in the original container, tightly closed and secured.
- Store away from food, feeds, seed, fertilizer and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- Aerial application: For beans, groundnuts.
- Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings.
- Do not spray over or allow spray drift to contaminate water or adjacent 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, incompatibility with other substances not indicated on the label and the occurrence of resistance of 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:

- Obtain, read and follow all safety instructions before use.
- Do not breathe dust/fume/gas/mist/ vapours/spray.
- Dispose of contents/container to
- Wear protective gloves/eye protection/face protection.
- IF ON SKIN: Wash with plenty of water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If skin irritation or rash occurs: Get medical help.
- Collect spillage.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Use only outdoors or in a well-ventilated area.
- Do not inhale spray mist.
- Avoid skin and eye contact.
- Wear protective clothing, face shield, rubber gloves and rubber boots when preparing the spray mixture.
- In case of accidental eye contact, flush with plenty of water and get medical attention if necessary.
- Wash with soap and water after use and accidental skin contact as well as contaminated clothing.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean application equipment thoroughly after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Triple rinse empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing's to the contents of the spray tank before destroying the container in the described manner.
- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- Never re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RELEVANT SUBSTANCES

Components	%
Chlorothalonil	<75
1,2-Benzisothiazol-3(2H)-one	< 0,05
Sodium hydroxide	< 0.1
Monoethylene glycol	< 5

RESISTANCE WARNING:

For resistance management, **KEEPER 720 SC** is a group code M5 fungicide. Any fungus population may contain individuals naturally resistant to **KEEPER 720 SC** and other group code M5 fungicide. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **KEEPER 720 SC** or any other group code M5 fungicide.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicide from the same fungicide group code. Alternate or tank mix with products form different fungicide group codes.
- Integrate other control methods(chemical, cultural, biological) into disease control Programmes.

For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- When **KEEPER 720 SC** is used in mixtures with other remedies, observe the label WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE as indicated for these remedies.
- Do not mix with other pesticides unless physical and chemical compatibility has been confirmed.
- Consult the supplier for the latest information on the compatibility of **KEEPER 720 SC**.

Mixing Instructions:

- Half-fill the spray tank with clean water.
- Shake the **KEEPER 720 SC** container thoroughly immediately before use.
- Measure the required volume of **KEEPER 720 SC** and premix this with at least 10 litres water.
- If any other product is to be mixed with **KEEPER 720 SC** pre-mix the required volume of product in similar fashion.
- Agitate the water in the spray tank and add the pre-mixed product(s) in the following sequence (as applicable): adjuvant/acidifier, wettable powder, suspension concentrate, emulsifiable concentrate.
- Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences.
- Maintain agitation while spraying.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

General Directions:

- **KEEPER 720 SC** must be applied as a preventive treatment for the control of the diseases mentioned.
- Ensure good coverage of the whole plant (the stems and both surfaces of the leaves) by using enough water and spraying equipment that is capable of maintaining high pressure.
- During wet or humid conditions when the disease pressure is more severe applications must be made more frequently than during drier conditions, but do not exceed 21 day spray intervals.
- Repeat applications if 13 mm or more natural or artificial rain is recorded within 72 hours of an application.

Aerial Application:

Aerial application of 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 to 40 litre per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 50 to 70 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 250 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.

- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable **atomising 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 atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the **wingtip vortices**.
- The difference 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:
 - Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - Damage to other sensitive crops and/or non-target areas through 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 DOSAGE RATES:

LAWNS AND TURF Dollar Spot (<i>Sclerotinia homoeocarpa</i> , <i>Rhizoctonia solani</i> & <i>Helminthosporium</i> spp.)	350 ml/100 ℓ water	Preventive treatment: Apply in a spray programme at 7 to 10 day intervals using at least 10 litre spray mixture per 100 m ² .
	520 ml/100 ℓ water	Curative treatment: Apply 10 litre spray mixture per 100 m ² twice within seven days and thereafter return to the preventive programme as above.
GROUNDNUTS Leafspot (<i>Cercospora</i> spp. and <i>Phoma arachidicola</i>) & Botrytis rot (<i>Botrytis cinerea</i>)		Apply KEEPER 720 SC as a full cover preventive spray in a regular spray programme. Start application as from middle to late December or about 6 to 10 weeks after planting (or earlier) depending on whether the conditions favour the development of diseases. Do not apply in less than 500 litre water per hectare at a minimum pressure of 500 kPa.
	0,7 ℓ/ha	DRYLAND CROP: Ground application: Low infection: Apply every 10 to 14 days in not less than 500 litre water per hectare.
	1,55 ℓ/ha	High infection: Apply every 7 to 10 days in up to 1500 litre water per hectare, depending on density of foliage.
	1,55 ℓ/ha	IRRIGATED CROP: Ground application: Apply every 7 to 14 days in up to 1500 litre water per hectare, according to the directions for application above.
CRUCIFERAE (BRAS-SICAS) White Blister (<i>Albugo candida</i>)	2 ℓ/ha	Apply as a full cover preventive spray every 7 days when the weather favours the disease. Apply in 450 - 700 l water /ha depending on the growth stage of the plants. Do not make more than two applications per growth cycle.
Tree Nuts Blossom blight / Brown rot (<i>Monilinia</i> spp.) Stone fruit rust (<i>Tranzschelia discolor</i>)	Ground application 3.5 ℓ /ha	REMARKS: • Begin applications at beginning of the flowering period followed by an application at full bloom. • Make additional applications as required on 14 - 28 days intervals. • Make 2 - 5 applications with KEEPER 720 SC during each growing season. • Do not apply through irrigation. • Do not apply with oils, other pesticides, surfactants or fertilizers. • Do not apply within one week of an oil-based pesticide application. Stone fruit rust: • Apply at bud-swell, bud-burst, pink-bud, shuck-fall and cap-fall with an application interval of at least 10 - 14 days. Blossom blight and scab: • Begin application at pink-bud stage and follow with an application at full bloom. • If weather is still conducive for disease development, another application may be made at petal-fall. NOTE: Use of this product may result in speckling or reddening of the fruit hull (epicarp). This effect is superficial and has not resulted in any change in nut quality.
POTATOES Early blight (Alternaria spp.) Late blight (Phytophthora spp.)	Ground High/low infection: 2 ℓ /ha Centre pivot application: 2 ℓ /ha	REMARKS: • Ground Application: Commence with a preventive spray programme, normally when the plants come into flower or when conditions favour disease development. Continue applications until aerial parts die back. • NOTE: KEEPER 720 SC can also be alternated with REVERT SC (L10830) in a 7 day cycle for the control of Late Blight and Early Blight in potatoes. Consult the respective labels for full particulars.
BEANS Rust (Uromyces appendiculatus)	Ground application DRYLAND CROP: 0.7 - 1.4 ℓ /ha IRRIGATED CROP: 1.4 ℓ /ha	REMARKS: • Apply in a spray programme every 7 - 14 days as a preventive treatment or at the first sign of infection. • DO NOT use less than 1,4 l KEEPER 720 SC per ha on irrigated beans. • DO NOT make more than 2 applications with KEEPER 720 SC
ROSES Black spot (Actinonema spp.)	Ground application 190 ml/100 l water	REMARKS: • Repeat application every 7 - 14 days.
TOMATOES: Early blight (Alternaria spp.) Late blight (Phytophthora spp.) Leaf spot (Septoria spp.) Botrytis rot (Botrytis cinerea)	HIGH VOLUME APPLICATION: High disease pressure: 190 m ℓ /100 ℓ water	Spray volume: GROUND APPLICATION: Spray preventively. HIGH VOLUME APPLICATION: Approximately 1 000 ℓ spray mixture/ha on mature plants. • Spray intervals every 10 - 14 days. Do not apply less than 1 l KEEPER 720 SC /ha on mature plants.