

ODEON[®] 720 SC

Reg. no. L7596 Act/Wet 36 of/van 1947
N-AR 0913

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

GROUP	M5	FUNGICIDE
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A suspension concentrate contact fungicide for the preventive control of diseases in crops and ornamentals as indicated.	'n Suspensiekonsentraat kontak swamdoder vir die voorkomende beheer van siektes in gewasse en sierplante soos aangedui.
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 <p>DANGER</p>	<p>Hazard statements Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Wear protective gloves; protective clothing; eye protection and face protection. Avoid release to the environment.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Chlorothalonil..... 720 g/LChlorothalonil

NET VOLUME/NETTO VOLUME

..... L

REGISTRATION HOLDER/REGISTRASIEHOUER

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UN no.: 2996

EMERGENCY NUMBERS:

Griffon Poison Information Centre: +27 82 446 8946
Tygerberg Poison Information Centre: +27 861 555 777

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum

WARNINGS

- Causes serious eye irritation.
- Toxic if inhaled.
- May cause respiratory irritation.
- Suspected of causing cancer.
- Very toxic to aquatic life with long lasting effects.

Beans (seed)	3 days
Beans (hay)	42 days
Cucurbits	3 days
Groundnuts (hay)	42 days
Potatoes	3 days
Tomatoes	3 days

- Could be harmful if the concentrate is swallowed.
- Store in a cool, dry place away from food and feed.
- **Re-entry interval:** Do not enter treated field until spray deposit has dried unless wearing protective clothing.
- **Aerial application: (Potatoes, beans and groundnuts only).** Inform 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 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 soil, 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 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

- Keep out of reach of children.
- Obtain, read and follow all safety instructions before reuse.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapours or spray.

- Wear protective gloves, protective clothing, and eye and face protection.
- Wear respiratory protection.
- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid release to the environment.
- Use only outdoors or in a well-ventilated area.
- Get medical advice/attention if you feel unwell.
- IF ON SKIN: Wash with plenty of water and soap.
- If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see supplemental first aid instructions on this label).
- Contaminated work clothing should not be allowed out of the workplace.
- Wash contaminated clothing before reuse and wash it before reuse.
- Store locked up in a well-ventilated place. Keep container tightly closed.
- Collect spillage.
- Dispose of contents/ container to an approved waste disposal plant.

- Do not eat, drink or smoke while mixing or spraying or before hands and face are washed.
- Avoid drift of spray onto other crops, grazing, rivers, dams or any other area not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Clean applicator after use and dispose of wash water where it will not contaminate other crops, grazing, rivers or dams.
- 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 of at least 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the empty container in the prescribed manner.
- Do not re-use the empty container for any other purpose.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Chlorothalonil	30 – 60%	1897-45-6
Oxirane, methyl-, polymer with oxirane, monobutyl ether	<10%	9038-95-3

FIRST AID

In case of accident or unwellness, seek medical advice immediately. Provide this label and SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.

Take the container label or product name with you when seeking medical attention.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.

Skin contact: Remove all contaminated clothing and shoes. Rinse the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Consult a physician if necessary.

Inhalation: Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician.

Ingestion: Call a poison control center or medical practitioner immediately for treatment advice. If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. If symptoms persist, call a physician.

TOXICOLOGICAL INFORMATION

Antidotes

None known. Treat symptomatically.

Symptoms of human poisoning

None known.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

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

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank-mix with products from different fungicide group codes.

- Integrate the control methods (chemical, cultural, biological) into fungicide control programmes. For specific information on resistance management contact the registration holder of this product.

MODE OF ACTION

M5: Multi-site contact activity fungicide.

DIRECTIONS FOR USE:

Use only as indicated.

Compatibility

The compatibility of **ODEON® 720 SC** with other insecticides and fungicides is unknown. The compatibility must be established beforehand on a small scale. When used in tank mixes with other crop protection chemicals the conditions that appear on the labels of those chemicals should be studied and adhered to. If applied by means of a center pivot irrigation system, **ODEON® 720 SC** must not be mixed with any other agricultural remedy or fertilizer.

Mixing Instructions

Half fill the spray tank with clean water. Mix the required volume of **ODEON® 720 SC** separately in a small volume of water before adding to the spray tank while agitating. When **ODEON® 720 SC** is used in a tank mixture with other products, add the products in the following sequence: adjuvant/acidifier, wettable powder, suspension concentrate, emulsifiable concentrate. Fill the spray tank to the required volume with water while agitating the spray mixture. It is important to maintain agitation during mixing and application. Prepared spray mixtures must not be left for any length of time, e.g. overnight.

APPLICATION

ODEON® 720 SC must be applied as a preventive application. Good coverage on both upper and lower surfaces of leaves should be ensured. Repeat application if 12 mm or more rain or irrigation is received within 72 hours after application. If weather conditions favorable for the development of disease prevail for long periods, it should be considered to alternate **ODEON® 720 SC** with registered systemic fungicides.

Ground Application

ODEON® 720 SC can be applied by any suitable medium or high-volume spraying apparatus provided it is correctly calibrated, has an efficient agitation system and is able to distribute the spray mixture evenly over the target area.

Aerial application: (Potatoes, beans and groundnuts only).

Aerial application of **ODEON® 720 SC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 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/ha 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 aurally at a lower volume rate than recommended above.
- **Droplet coverage:** 50-70 droplets/cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 220–250 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and 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 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 60–75% 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:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - b) 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.
- **Note:** For potatoes and beans, apply in not less than 30 L water/ha and for groundnuts in 50 L water/ha.

Centre Pivot Application

ODEON® 720 SC may be applied through a centre pivot irrigation system. The supply tank and connecting pipes should be leak free and fitted with an efficient agitation mechanism. The spray mixture must be injected into the irrigation system by means of a positive displacement metering pump. Non- return valves in the system must be in place to prevent a back flow of the spray mixture to the water sources. If a chemigation system is not fitted to the centre pivot and the spray mixture is injected directly into the irrigation system the centre pivot should be set at maximum speed and minimum water delivery. The spray mixture must be applied evenly over the target area in one continuous operation. Run-off must be prevented in order to eliminate the risk of pollution or phytotoxicity. Flush the whole system with clean water after use. Ensure that the flush water does not contaminate water sources.

APPLICATION RATES

CROP/TARGET	DOSAGE	REMARKS
Beans Rust (<i>Uromyces appendiculatus</i>)	<p><u>Dry land</u></p> <p>Ground application 0.7–1.4 L/ha</p> <p>Aerial application 0.7–1.4 L/ha</p> <p><u>Irrigated</u></p> <p>Ground application 1.4 L/ha</p> <p>Aerial application 1.4 L/ha</p>	<p>Commence application as a preventive spray when weather conditions favour the development of the disease (periods of high humidity of 8–10 hours). Use the higher dosage rate on bigger plants or when climatic conditions favouring the development of the disease prevail. Repeat application every 7–14 days. Apply as a full cover spray in 250–500 L water/ha depending on plant size.</p> <p>Apply as above in at least 30 L water/ha.</p> <p>Apply as above as a full cover spray in 250–500 L water/ha depending on plant size.</p> <p>Apply as above in least 30 L water/ha.</p>
Cucurbits Anthracnose (<i>Colletotrichum orbiculare</i>) Downy mildew (<i>Pseudoperonospora cubensis</i>)	1.0–2.0 L/ha	Apply as a full cover preventive spray or when weather conditions favour the development of the disease. Apply in at least 500 L water/ha. Use the higher dosage rate when weather conditions favour the development of the disease. Repeat application at 7-10 day intervals. Ensure good coverage of all plant parts.
Groundnuts Leafspot (<i>Cercospora</i> spp., <i>Cercosporidium</i> spp., <i>Phoma</i> spp.) Botrytis rot (<i>Botrytis</i> spp.)	<p>Dry land</p> <p>Ground application 0.7–1.55 L/ha</p> <p>Aerial application 1.55 L/ha</p>	<p>Apply as a full cover preventive application in not less than 500 L water/ha. Repeat every 10–14 days at the lower rate for low infections. Commence application 6–10 weeks after planting or earlier if weather conditions favour the development of the disease. Use the higher rate for more severe infections and increase the water volume from 500 L to 1500 L/ha depending on plant size. Repeat application every 7–10 days for high infections.</p> <p>Apply in at least 50 L water/ha when tractor applications are impractical due to very wet conditions.</p>
	<p>Irrigation 1.55 L/ha</p>	Apply as above in up to 1500 L water/ha. Repeat application every 7–14 days



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CROP/TARGET	DOSAGE	REMARKS
Ornamentals Flowers and Lawns Gladioli Leaf spot	190 ml/100 L water	Apply as a full cover preventive spray every 7–14 days. Do not apply during flowering.
Lawns and Turf Dollar spot	Preventive 350 ml/100 L water	Apply at least 10 L spray mixture/100 m ² in a spray programme at 7–10 day intervals.
	Corrective 520 ml/100 L water	Apply twice within 7 days and thereafter use the preventive programme as above.
Roses Black spot	190 ml/100 L water	Apply as a preventive full cover spray programme at intervals of 7–14 days.
Potatoes Early blight (<i>Alternaria solani</i>) Late blight (<i>Phytophthora infestans</i>)	Ground application 0.7–2.0 L/ha Centre pivot application 2.0 L/ha	<p>Commence application as a preventive treatment before the disease appear or if weather conditions favour the development of the disease.</p> <p>Low infection: Apply at a rate of 0.7 L/ha at 7-day intervals or at 1.0 L/ha at 10-day intervals under dry land cultivation. Apply in 500 L water/ha.</p> <p>High infection: Apply at a rate of 2.0 L/ha and repeat application at 5–7-day intervals in not less than 500 L and up to 1500 L water/ha depending on the density of the foliage and the size of the plants. Use this rate also for potatoes under irrigation. If necessary alternate ODEON® 720 SC with registered systemic products.</p> <p>Refer to ground application for usage directions. Apply as a spray programme starting 2 weeks after emergence at intervals of 7–10 days. Do not exceed a 10 day interval between applications. Refer to section under centre pivot application under APPLICATION. It is important to ensure that full cover, even wetting is obtained on all parts of potato plants.</p> <p>NOTE: Up-to-date potatoes cultivated under centre pivot irrigation are extremely susceptible to late blight infection from January - April especially in the Limpopo Province and ODEON® 720 SC might not give adequate control under such high disease pressure during this period. It is suggested to apply ODEON® 720 SC at 2.5 L/ha at spray intervals of 4-5 days during this period on this cultivar.</p>



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CROP/TARGET	DOSAGE	REMARKS
	Aerial application 1.0–2.0 L/ha	Use as for ground application. Apply the lower rate for lower infections and the higher rate for more severe infections. Apply in not less than 30 L water/ha.
Tomatoes Early blight (<i>Alternaria solani</i>) Late blight (<i>Phytophthora infestans</i>) Botrytis rot (<i>Botrytis cinerea</i>)	105 ml/100 L water 190 ml/100 L water 210 ml/100 L water 380 ml/100 L water	Apply as a preventive application from flowering before any symptoms appear or when weather conditions favour the development of the disease. Apply as a full cover spray using up to 2,000 l spray mixture/ha depending on plant size or whether plants are trellised or not. When Botrytis rot threatens apply the higher rate at 7 day intervals for both high and low volume applications. Ensure good coverage of both upper and lower leaf surfaces. High volume: Apply at 1000 – 2000 L spray mixture/ha on mature plants. Low infection: Apply every 10–14 days. Do not use less than 1.05L ODEON® 720 SC /ha on mature plants. High infection: Apply every 7–10 days. Do not use less than 1.9 L ODEON® 720 SC /ha on mature plants. Low volume: Apply 500 L spray mixture/ha on mature plants. Low infection: Apply every 10–14 days. Do not apply less than 1.05 L ODEON® 720 SC /ha on mature plants. High infection: Apply every 7–10 days. Do not apply less than 1.9 L ODEON® 720 SC /ha on mature plants.