

Copstar 360 SC

Reg. No. L11167 Act No. 36 of 1947

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

FRAC FUNGICIDE GROUP CODE M1

Copstar 360 SC is a copper-containing suspension concentrate fungicide and bactericide for the control of diseases in crops as indicated



DANGER

ACTIVE INGREDIENT

Copper hydroxide 600 g/t
(equivalent to 360 g/t metallic copper)

Registered, Manufactured and Distributed: Rolfes Agri (Pty) Ltd.
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Tel: +27 (12) 803 0145

HAZARD STATEMENTS:

Harmful if swallowed.
May cause allergic skin reaction.
Causes serious eye damage.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Wash hands and affected area thoroughly after handling. Do not touch eyes.
Do not eat, drink, or smoke when using this product.

Product approved for use in organic farming according to Reg. (EU) 2018/848: Annex I, Copper compounds.



Rolfes 
Agri

Spill Response and Transport incidents

Spill Tech, Oil and chemical pollution control
Tel: +27 (86) 100 0366 / +27 (83) 253 6618
www.spilltech.co.za



Shake well before use • Store at room temperature
Keep out of direct sunlight • Keep container closed when not in use



WARNINGS:

- **Withholding periods:** Minimum number of days between last application and harvest:

Pome Fruit	14 days
Avocados	14 days
Citrus	14 days
Coffee	14 days
Grapes (table)	4 - 6 weeks
Grapes (wine)	21 days
Mangoes	14 days
Onions bulb group	14 days
Stone Fruits	14 days
Potatoes	14 days

The local maximum residue levels (MRL's) will not be exceeded provided this product is used according to the label instructions. However, local MRL may not meet export requirements, therefore when produce is destined for the export market, the relevant export agency must be contacted prior to the use of this product regarding application timing, withholding periods and specific tolerances of the destination country.

- **Re-entry interval:** Do **NOT** enter treated area within 1 day after treatment unless wearing protective clothing.

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 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:

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read carefully and follow all instructions.
- Avoid breathing in fume/gas/mist vapours/spray.
- Wash hands and affected area thoroughly after handling. Do not touch eyes.
- Do **NOT** eat, drink, or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear eye protection/face protection and protective gloves.
- Avoid release to the environment.
- IF SWALLOWED: Get medical help.
- IF ON SKIN: Wash with plenty of water.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see first aid on this SDS)
- Rinse mouth.
- If skin irritation or rash occurs: Get medical help.
- Collect spillage.
- Take off contaminated clothing and wash it before reuse.
- Empty all contents from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler.

RELEVANT SUBSTANCES:

Copper Hydroxide 30 to 60 % and Benzisothiazolinone < 10%

SYMPTOMS OF HUMAN POISONING:

Ingestion can cause diarrhoea and stomach pain. Certain individuals may be sensitive to copper. If product gets into the eyes, it causes substantial but temporary eye irritation. Inhalation may cause respiratory tract irritation.

FIRST AID TREATMENT:

Ingestion: If person is fully conscious, give large amounts of milk or water and call a doctor.

Skin contact: Wash thoroughly with soap and water.

Eye contact: Immediately flush the eyes with plenty of clean water for at least 15 minutes.

Get medical attention.

Inhalation: Remove person to fresh air. Give oxygen if breathing is difficult.

NOTE TO PHYSICIAN:

Treat symptomatically.

RESISTANCE WARNING:

For resistance management, **COPSTAR 360 SC** is a group code M1 fungicide. Any fungus population may contain individuals naturally resistant to **COPSTAR 360 SC** and other group code M1 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **COPSTAR 360 SC** or any other group code M1 fungicide.

To delay fungicide resistance:

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

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

DIRECTIONS FOR USE: USE ONLY AS INDICATED

COMPATIBILITY: Do not apply **COPSTAR 360 SC** in combination with any acidifying products such as zinc nitrate (ZnNO₃), ammonium sulphate (NH₄SO₄), amino-acid chelated foliar feeds or any other acidifying or chelated kelp, fulvic and humic acid based products, or apply these products to the fruit and leaves within 30 days after a copper application. Do not apply citric acid containing products such as potassium citrate (**ONLY-K**) or calcium citrate or calcium or magnesium citrate in combination with or within 30 days after a **COPSTAR 360 SC** application. **COPSTAR 360 SC** is compatible with **FIGHTER**, mancozeb 800 g/kg and **AG-THIRAM 800 WP**. Consult with a Rolfes representative.

IMPORTANT NOTES

It is essential that **COPSTAR 360 SC** be kept agitated throughout the entire mixing and spraying operation. **COPSTAR 360 SC** is a preventive spray and application must be carried out before or just as the first signs of the disease are noticed. Do **NOT** exceed max rate per ha as per registered **FIGHTER** label.

ENVIRONMENTAL CONDITIONS:

Do **NOT** apply **COPSTAR 360 SC** under adverse weather conditions causing stress to the crop, such as high or low temperatures, high or low humidity, rain or frost. Do **NOT** apply when the fruit is still wet as a result of rain or dew, or if rain is imminent or expected, or under ANY circumstance where slow drying conditions might prevail or be expected, or under the above conditions phytotoxicity/injury/stippling may occur. Do **NOT** apply during periods of water stress.

CITRUS:

Successive **COPSTAR 360 SC** applications, adverse environmental conditions, late applications (March - April) or acidifying products can cause stippling of fruit. To avoid stipple formation, replace every second application with mancozeb. Do **NOT** apply **COPSTAR 360 SC** with any buffers or adjuvants, or any other adjuvants before consulting a qualified agronomist.

RESTRICTIONS:

Max level of copper per ha are not to be exceeded.

AG-THIRAM 800 WP (Thiram 800 g / kg), L8175 Act No. 36 of 1947, registered by Rolfes Agri (Pty) Ltd
FIGHTER (Potassium phosphite 555 g / ℓ), L7330 Act No. 36 of 1947, registered by Rolfes Agri (Pty) Ltd
AQUA-WET (Alcohol ethoxylate, glycol ether, fatty acids 900 g / ℓ), L6204 Act No. 36 of 1947, registered by Rolfes Agri (Pty) Ltd

CROP & DISEASE	DOSAGE RATE	REMARKS
POME FRUIT Apples and Pears Scab (<i>Venturia inaequalis</i>)	60 - 100 mL / 100 ℓ water OR 60 - 100 mL / 100 ℓ water + 6 ℓ/ha FIGHTER	Apply 2 applications with a 7 day interval. Spray at green tip stage.
AVOCADOS Fruit spot (<i>Pseudo-cercospora purpurea</i>)	120 - 170 mL / 100 ℓ water	Start applications early in November and repeat every 4 weeks. Apply 3 – 4 full cover applications during the season. Will also control Anthracnose if present at time of application.
CITRUS Lemons, Limes, Grapefruit or Pomelos, Oranges, Mandarins (including Clementines, Satsumas, Naartjies and Tangerines) and Tangelos Black spot (<i>Guignardia citricarpa</i>) Alternaria spot (<i>Alternaria alternata</i> pv. <i>citri</i>)	120 mL / 100 ℓ water 90 mL / 100 ℓ water + 100 g mancozeb 800 g/kg / 100 ℓ water	Start COPSTAR 360 SC applications before mid-October. Apply 3 more high volume sprays at 30 - 35 day intervals during the susceptible period from October to end December. During a high rainfall season, a fourth application may be necessary. Apply as a high volume cover spray. Begin application at first flush (± middle September) and repeat every 28 days until harvest.
COFFEE Rust (<i>Hemileia vastatrix</i>)	190 - 220 mL / 100 ℓ water	Apply as a full cover application, commencing before rust symptoms appear. Apply 4 - 5 sprays at 4 week intervals. Apply at least 1000 ℓ spray mixture per hectare.
WINE AND TABLE GRAPES Downy mildew (<i>Plasmopara viticola</i>)	120 - 140 mL / 100 ℓ water OR 120 mL / 100 ℓ water + 350 mL / 100 ℓ water FIGHTER OR 120 mL / 100 ℓ water + 6 ℓ / ha FIGHTER	Start spraying when shoots are approximately 10 cm long and repeat every 10 – 14 days depending on weather conditions. Ensure thorough coverage of the vines. Increase the spray volume progressively from 500 ℓ – 1500 ℓ / ha, depending on the vine growth. NB: Do NOT apply after pea berry stage (4 - 6 weeks before harvest).
MANGOES Bacterial spot (<i>Xanthomonas campestris</i>)	120 - 180 mL / 100 ℓ water	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 program.
ONIONS BULB GROUP All varieties of Bulb Onions, Spring Onions, Shallots, Chives, Garlic and Leeks Downy mildew (<i>Peronospora destructor</i>)	120 - 150 mL / 100 ℓ water	Apply 3 – 4 applications with 10 – 14 day intervals. Apply in 300 – 500 ℓ water per hectare, depending on plant size. Start as soon as the disease is noticed, or when weather conditions are conducive to the development of the disease. Ensure complete spray coverage.
STONE FRUIT Apricots, Cherries (sweet and sour), Nectarines, Peaches, Plums and Prunes Leaf curl (<i>Taphrina deformans</i>)	150 - 170 mL / 100 ℓ water + 140 g AG-THIRAM 800 WP / 100 ℓ water (tank-mix)	Apply as a full cover spray at 60 % leaf drop and at bud swell. Add AQUA-WET at a rate of 18 mL per 100 ℓ spray water.
POTATOES Early blight (<i>Alternaria solani</i>) Late blight (<i>Phytophthora infestans</i>)	120 - 140 mL / 100 ℓ water 120 - 140 mL / 100 ℓ water + 200 g Mancozeb 800 g/kg WP / 100 mL water (tank-mix) OR 120 mL / 100 ℓ water + 3 ℓ / ha FIGHTER	Commence application before or just when first symptoms are noticed. Apply every 7 – 10 days, depending on weather conditions favourable for the development of the disease. Depending on plant size, apply at 500 – 1500 ℓ spray mixture per hectare. Ensure thorough coverage of both upper and lower leaf surfaces. Repeat application after more than 13 mm of rain or overhead irrigation. Start preventive application before first signs of the disease, depending on conditions favourable for the development of late blight infections. Apply at 7 – 10 day intervals. If late blight is present in a field, spray intervals should be shortened to 5 days. Low volume application: 200 – 300 ℓ water per hectare. High volume application: Apply 1500 ℓ spray mixture per hectare. Ensure full coverage of both upper and lower leaf surfaces. Repeat application after more than 13 mm rain or overhead irrigation.