

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Kocide[®] Opti[™]

FUNGICIDE

ACTIVE CONSTITUENT: 300 g/kg COPPER (Cu) present as Cupric hydroxide

GROUP M1 FUNGICIDE

A fine dry flowable fungicide for the control of Downy mildew in Grapes as indicated in the Directions for Use.

Pack Sizes: 5 Kg, 10 Kg

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone: *Australia* 13 11 26. *New Zealand* 0800 764 766. If in eyes, hold open, flood with water for at least 15 minutes and see a doctor.

**EMERGENCY RESPONSE
(ALL HOURS)**
RING FROM ANYWHERE IN
AUSTRALIA
1800 370 754
(LOCAL CALL FEE ONLY)

SAFETY DIRECTIONS

- May irritate the eyes and skin
- Avoid contact with eyes and skin.
- Wash hands after use

IN A TRANSPORT
EMERGENCY ONLY
DIAL 000
FOR POLICE OR
FIRE BRIGADE

SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet for **KOCIDE[®] OPTI FUNGICIDE** which is available from Corteva Agriscience on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.corteva.com.au



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Visit us at corteva.com.au

DIRECTIONS FOR USE**RESTRAINTS:**

- DO NOT apply when temperatures exceed 35^oc
- DO NOT apply when slow drying conditions prevail.
- DO NOT apply to copper-shy crops or cultivars.
- DO NOT apply if it is likely to rain before the spray is dry.
- DO NOT apply to wet crops.
- DO NOT use in spray solutions with a pH of less than 6.5 as phytotoxicity may occur.

ALL STATES

All rates are for dilute spraying. For concentrate spraying rates, refer to the Mixing/Application section. If using concentrate application, apply the same total amount of product to the target crop

CROP	DISEASE	DILUTE SPRAYING RATE	CRITICAL COMMENTS
Grapes	Downy mildew (<i>Plasmopara viticola</i>)	80 to 115 g/100 L	Apply when shoots are 10 cm long and repeat at 10 to 14 day intervals while weather conditions favour infection. Use the higher rate when conditions are highly favourable for infection. Leaf damage may occur on 'copper-shy' varieties. Apply as a dilute or concentrate spray. DO NOT use a concentration factor greater than 3X. For concentrate application use a minimum spray volume of 250 L per hectare.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

HARVEST WITHHOLDING PERIODS (WHP)

DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

GENERAL INSTRUCTIONS

Kocide[®] Opti is a protectant fungicide. Applications should begin prior to any sign of disease. Complete spray coverage is essential to assure optimum performance from Kocide[®] Opti.

MIXING INSTRUCTIONS

Fill the spray vat with good quality water. Remove top strainer from spray vat. With the agitation system operating, pour the required quantity of Kocide[®] Opti into the spray vat in a steady stream. DO NOT attempt to pre-mix Kocide[®] Opti in water before adding to the spray vat. If other pesticides are being used, fully mix the Kocide[®] Opti in the spray tank before adding other products. Always add and mix the Kocide[®] Opti first. Sprays containing Kocide[®] Opti should be used within 3 hours of preparation and they should be agitated continuously during this period.

APPLICATION**Dilute Spraying**

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.

- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.
- Always apply sufficient water to cover the crop to the point of run-off, otherwise underdosing will occur and disease control may be inadequate.

Concentrate Spraying

- Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run off) and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.
- Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.

The mixing rate for concentrate spraying can then be calculated in the following way:

Example Only

1. Dilute spray as determined above: For example 1,500 L/ha
2. Your chosen concentrate spray volume: For example 500 L/ha
The concentration factor in this example is 3X (i.e $1,500 \text{ L} \div 500 \text{ L} = 3$)
3. If the dilute label rate is 150 g/100 L, then the concentrate rate becomes 3×150 , that is 450 g/100 L of concentrate spray.
4. The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.

For further technical information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training, and follow Industry Best Practices.

APPLICATION BY AIRCRAFT

Apply in a minimum of 20 L of water per hectare. May be applied with hydraulic nozzles or rotary atomisers operated to produce droplets with a V.M.D. of around 150 microns. Avoid application in calm or very windy conditions or when temperature and humidity cause rapid drying. To ensure good spray coverage, applications should ideally be made in a light crosswind

WETTING AGENTS

The addition of a wetting agent is required when Kocide® Opti is applied as a concentrate spray or by aircraft. Add a wetting agent at label rates when suitable for these purposes, irrespective of the spray volume applied.

COMPATIBILITY

Kocide® Opti is compatible with most insecticide/pyrethroids, dormant spraying oils, mancozeb, ziram, wettable sulphur and urea. Mixtures with more than one of the above products is not recommended. Such mixtures may be ineffective or may cause serious damage. Kocide® Opti may NOT be compatible with some foliar fertilisers and a test should be conducted before use. Always add Kocide® Opti to the spray solution and dissolve before other products are added.

FUNGICIDE RESISTANCE WARNING

GROUP	M1	FUNGICIDE
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Kocide® Opti® is a member of the Inorganic group of fungicides. For fungicide resistance management the product is a Group M1 fungicide. Some naturally occurring individual fungi resistant to Group M1 fungicides may exist through normal genetic variability in any fungal

population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by this product or other Group M1 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant individuals is difficult to detect prior to use, Production Agriscience Australia Limited* accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

* Production Agriscience Australia Limited is a member of Corteva Agriscience group of companies

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

Bag

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Shake bag contents into spray tank until the bag is empty. **DO NOT** dispose of undiluted chemicals on site. Puncture or shred and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State, Territory government regulations. **DO NOT** burn empty bags or product.

HDPE container

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Triple rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State, Territory government regulations. **DO NOT** burn empty containers or product.

APVMA Approval No. : 63216/122714

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CUSTOMER SERVICE TOLL FREE

1-800 700 096

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Hazard and precautionary statements according to classification under GHS (Globally Harmonised System of Classification and Labelling)

Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. Avoid breathing dust / vapours/ spray. Wear protective gloves, clothing, eye protection and face protection. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Barcode
for stock
identification

