



Company Name: AGRINOVA NEW ZEALAND LIMITED T/A GRO-CHEM
Product Name: GROCHEM DODINE
APVMA Approval No: 81623/103478

Label Name:	GROCHEM DODINE FUNGICIDE
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	400g/L Dodine
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Mode of Action:	<table border="1"><tr><td>GROUP</td><td>M7</td><td>FUNGICIDE</td></tr></table>	GROUP	M7	FUNGICIDE
GROUP	M7	FUNGICIDE		

Statement of Claims:	For the control of Black Spot in Apples and Pears, and Leaf Curl and Blossom Blight in Peaches and Nectarines.
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Net Contents:	1L, 5L, 10 L
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Restraints:	
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Directions for Use:	
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Other Limitations:	NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.
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Withholding Periods:	WITHHOLDING PERIOD: APPLES & PEARS: DO NOT HARVEST FOR 5 DAYS AFTER APPLICATION.
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GRAZING: DO NOT CUT FODDER FOR STOCKFEED OR ALLOW LIVESTOCK TO GRAZE VEGETATION IN TREATED ORCHARDS.

Trade Advice:

General Instructions:

GENERAL INSTRUCTION: This product possesses eradicant as well as protective properties. When applied within 36 hours after the start of an infection period, it penetrates the leaf surface to eradicate the black spot or scab infection.

DO NOT use on fruit at temperatures close to freezing point from pink stage on, as fruit russeting may occur. DO NOT use on apples or pears under conditions conducive to skin damage including russeting, lentical spotting and drip point burn (varieties such as Golden Delicious apples and Williams and Packham pears are particularly susceptible).

MIXING: Shake well before use. Add the necessary quantity to about half the required amount of water in the spray tank while the agitator is running. Then add the rest of the water and keep mixture agitated during use.

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 water 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 100L 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.

APPLICATION: 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:

Dilute spray volume as determined above (eg 1500L/ha).

Your chosen concentrate spray volume (eg 500L/ha).

The concentration factor in this example is: $3 \times$ (i.e. $1500L / 500L = 3$)

If the dilute label rate is 40ml/100L, then the concentrate rate becomes $3 \times 40ml$, that is 120ml/100L of concentrate spray.

The chosen spray volume, amount of product per 100L of water, and the sprayer set up and operation may need to be changed as the crop grows.

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

COMPATIBILITY: DO NOT mix with more than one product. DO NOT mix with lime sulphur, Bordeaux mixture, chlorbenzilate or alkaline materials. This product may be mixed with most commonly used insecticides, acaricides and fungicides. However, with some products, particularly emulsifiable concentrates and with some types of water, it may be desirable to add non-ionic wetting agent to the water before mixing Grochem Dodine or

	adding the other products. Particular combinations should be checked before preparing large amounts.
Resistance Warning:	<p>FUNGICIDE RESITANCE WARNING: For fungicide resistance management Grochem Dodine is a Group M7 fungicide. Some naturally occurring individual fungi resistance to Grochem Dodine and other Group M7 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Grochem Dodine and other Group M7 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use Grochem accepts no liability for any losses that may result from failure of Grochem Dodine to control resistant fungi.</p> <p>RESISTANCE STRATEGY: Continual use of this product may result in the build up of strains of disease resistant to Grochem Dodine. To avoid resistance build up Grochem recommend applying no more than 3 consecutive sprays of Grochem Dodine. If more than 3 sprays are required include a fungicide from DMI group before continuing with Grochem Dodine.</p>
Precautions:	PRECAUTIONS: Re-entry: Do not allow re-entry into treated areas for 2 days after spraying, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.
Protections:	<p>PROTECTION OF LIVESTOCK: DO NOT graze cover crops in treated orchards or feed crop residues to livestock.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS & ENVIRONMENT: DO NOT contaminate streams, rivers or waterways with the chemical or used containers.</p>
Storage and Disposal:	<p>STORAGE & DISPOSAL: Store in the closed, original container in a well-ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs and fertilisers. Triple or preferably pressure 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.</p> <p>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 or Territory government regulations. DO NOT burn empty containers or product.</p>
Safety Directions:	SAFETY DIRECTIONS: Harmful if inhaled or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles and disposable mist mask. When using the prepared spray, wear cotton overalls buttoned to the neck and wrists (or equivalent clothing). If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves, goggles and contaminated clothing.

First Aid Instructions:	FIRST AID: If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 1126.
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First Aid Warnings:	For further information, refer to the Material Safety Data Sheet.
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DIRECTIONS FOR USE: For all States

RATE: In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.				CRITICAL COMMENTS: For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
Crop	Disease	Rate/100L	Withholding	
Apples	Black Spot (<i>Venturia inaequalis</i>)	80ml	5 days	PROTECTIVE PROGRAMME: Following a copper spray at green tip, apply at pink bud (apples) or white bud (pears) followed by 2 cover sprays 10 days apart, a further 2 cover sprays 10-14 days apart and a fifth cover spray after a further 21 days and then at 4-6 week intervals depending on weather and presence of infection. CURATIVE PROGRAMME: Apply within 36 hours of the start of an infection period (eg after rain) which is favourable to development of black spot. This fungicide is subject to resistance strategy. See General Instructions for details.
	Pears	Black Spot (<i>Venturia pirina</i>)		
Peaches Nectarines	Peach Leaf Curl (<i>Taphrina deformans</i>)	100ml	-	Apply at bud swell, early bloom and petal fall. DO NOT apply after petal fall.
	Blossom Blight (<i>Monilinia</i> spp)	200ml		