

AGRICULTURAL CHEMICAL NAME & RATE OF USAGE

I like to keep the following list of chemical application rates for quick reference purposes.

Name of Spray	For Control of	At a Rate of
BRAVO	Phytophthora, downy mildew, botrysis some glomerella	2.3 ml/litre
CARBARYL 500	Green vegetable bug, beetles, grasshoppers	2 ml/litre
DETER	Cockroaches Spiders	100 ml/10 litres 50-100 ml/litre
DIAZINON 800	Aphids, thrips, mealy bugs, scale, bugs & beetles	6 ml/10 litres
DISYSTON	6 weeks protection for thrips, aphids & mites	4-7 g/metre ²
FOLI-R-FOS 200	Phytophthora, downy mildew, glomerella	6 ml/litre
FONGARID	Pythium, phytophthora	Drench @ 1 g/litre
FOLIMAT	Two spotted mites, aphids, thrips	7.5 ml/10 litres
FOLIDOL E605	Aphids, thrips, mealy bugs, two spotted mite (systemic)	2.5 ml/10 litres
KELTHANE	Two spotted mites – check rate on label	Usually 1.5-2ml/litre
LORSBAN 500EC	Aphids, grasshoppers, mealy bugs, two spotted mites	1 ml/litre
MALDISON 500	Aphids, mites, scale, mealy bugs & thrips	1.25 ml/litre
MANCOZEB	Black spot, botrytis, septoria, rust, downy mildew	1.5 g/litre
METASYSTOX	Aphids, mites (systemic)	1 ml/litre
MARVIK	Grubs, aphids, two spotted mite	3 – 4 ml/litre
NATRASOAP with SPRAY TECH OIL	Aphids, thrips, mealy bugs, spider mite, white fly	10-20 ml/litre & @ 2.5 ml/litre
NATRIPHENE	Botrytis, fusarium, rhizoctonia, sclerotinia	4 g/litre
PHOSDRIN	Thrips, grubs, 'phallie' mite	6.5 ml/litre
ROVRAL LIQUID	Alternaria, botrytis, rhizoctonia, sclerotinia	2 ml/litre
ROGOR 400	Aphids, thrips, mites, white fly (contact systemic)	7.5 ml/10 litres
SUPRACIDE 400	Scale, aphids, thrips, orchid beetle, slugs/snails, grasshoppers, weevils, grubs	1.25 ml/litre
THIODAN	Grubs, aphids, thrips, broad mite	1.9 ml/litre
TORQUE	Two spotted mite	3.7 ml/10 litres
ZINEB	Some fungal diseases and some mites	1.35 – 1.75 g/litre

WARNING

In some States in Australia it is an offence under the pesticides act to use a pesticide in a way that does not comply with the instructions on the registered label. (Unless a specific order or permit has been issued, under the appropriate act. Details of regulations can be obtained from the appropriate Government Department

This Table reproduced by courtesy of Alan Merriman

Insecticides

Aphids	Pirimor®	0.3 g/litre
	Metasystox®	1ml/litre
	Rogor®	0.75 ml/litre
Beetles	Carbaryl F.L.®	2 ml/litre
Grubs	Carbaryl F.L.®	2 ml/litre
	Tiodan®	1.9 ml/litre
	Malathion®	1ml/litre
Fungus gnats	Diazinon®	2 ml/10litres
Grasshoppers	Carbaryl W.P®	1g/litre
	Carbaryl F.L®	2 ml/litre
Two Spotted Or Red Spider	Rogor®	0.75 ml/litre
	Kelthane®	1 to 2 ml/litre
Mites	Ornite®	1g/litre
	Marvik®	3 ml/10litres
Scale Insects	Malathion®	1ml/litre
	Supracide®	1.25 ml/litre
Snails	Mesurool 750®	1 g/litre

Fungicides

Anthracnose	Zineb®	2 g/litre
Botrytis	Bravo 720®	1 ml/litre
	Bravo 500®	1.5 ml/litre
	Bravo W750®	1 g/litre
	Rovral Liquid®	2 m/litre
	Rovral Aqua Flo®	1 ml/litre
	Mancozeb®	1 g/litre
Mildews, Rusts and Leaf Spots	Zineb®	1 to 2 g/10 litres
	Copper OxyChloride®	4 g/litre
	Kumulus (sulphur) D.F.®	2 g/litre
	Baycor 300®	1.7 ml/litre
	Bavistin®	0.5 to 1 ml/litre
	Sapro1®	1 ml/litre
	Plantvax®	1.3 g/litre
Phytophthora	Terrazole E.C. ®	1 ml/litre
	Terrazole W.P. ®	0.75 g/litre
	Fongarid®	1 g/litre
	Alliette®	1 g/litre
	Foli-R-Fos®	5 ml/litre
	Previcur®	1.5 ml/litre
	Thiram®	1.5 g/litre
Rhizoctonia	Terrachlor W750®	1 to 3 g/litre
Fusadum	Foli-R-Fos®	5 ml/litre

An Update on Horticultural Chemicals

By Alen J Merriman

Original article in the December 1996 issue of 'Orchids Australia Magazine (Australian Orchid Council)

Following Wal Murphy's excellent article on Phalaenopsis (Orchids Australia, October 1996), I wish to update the Table of horticultural chemicals on what is currently available and the rate of use.

Benlate® is not registered for use on ornamentals. It is now only available in 1kg and 5kg packs.

Topsin® is no longer available.

Below is a short list of agricultural chemicals that are registered for use on ornamentals.

Before using any chemical, please read the label as sometimes certain sprays may be formulated at a different rate of use.

Use these tables in conjunction with those on page 47 of the October issue of Orchids Australia.

For those orchid growers who wish to use non-toxic chemicals on their orchids, the use of Natiasoap® is recommended.

When mixed with Spraytech Oil® the product becomes very effective.

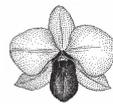
Natrasoap® at 10 to 20ml per litre is mixed with Spraytech Oil® at 2.5ml/litre.

Remember to consult the label before using any agricultural chemical. Product usage and rate could change at any time depending on the percentage of active ingredient. Also check to see if the product is legal to use in your state or country, and for use on ornamentals.

Never spray in the heat of the day and if trying a new product spray a few plants to make sure there are no phytotoxic effects.

Disclaimer: The author, *Orchids Australia* and LADOS Inc accept no responsibility for the wrong use of products or phytotoxic effects on plants.

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Editors Note: Alan Merriman is involved in the agricultural chemicals industry as well as orchids. He is author of the books 'Alan's Pest and Disease Handbook' and 'Alan's Fertilizer Handbook'.