

AGMIN NEWSLETTER No. 419

Application Rates of Kupramine® in Large Water Storage Reservoirs

Kupramine® is registered by the NRA for use as an Algicide in potable water reservoirs.

For large reservoirs exceeding 100 Megalitres (ML), the Table below gives the quantities of Kupramine® required to give 0.2, 0.5 or 1.0 mg/L (ppm) as available copper. The concentration of copper in ppm is determined after consideration of the types of algae present and their susceptibility or resistance to copper (Refer to the Kupramine® label for details).

For deep reservoirs greater than 10 metres, it may be more economical and practical to treat only the top layer of water, from the surface to a depth of 5-10 metres, depending on the dam contours. Algae usually tends to concentrate in the upper water levels, from the surface to a depth of several metres.

The depth of water to be treated with Kupramine® should be at least equal to the depth of the water draw-off level at the dam wall.

When de-stratifies are used, the volume of water to be treated should be calculated from the depth of water which is being aerated.

Application Rates of Kupramine® in Water Storage Reservoirs

Volume of Reservoir ML	Kupramine® Volume Required		
	0.2 ppm Cu	0.5 ppm Cu	1.0 ppm Cu
100	200 Litres	500 Litres	1000 Litres
500	1000 Litres	2500 Litres	5000 Litres
1000	2000 Litres	5000 Litres	10000 Litres
2000	4000 Litres	10000 Litres	20000 Litres
4000	8000 Litres	20000 Litres	40000 Litres

Note: The Volume of Water in a Reservoir can be calculated from the following data:

Surface Area (Hectares) x Average Depth (metres) x 10 = Total Volume (Megalitres)



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