

Environmental Information Sheet

KINDRED[®] MAPP 13891



A 350 g/litre emulsifiable concentrate formulation containing meptyldinocap, a dinitrophenyl crotonate fungicide, for control of powdery mildew in grapes and protected strawberries

Maximum individual dose: 0.6 l/ha (210 gas/ha meptyldinocap)
 Maximum no. treatments: 3 per annum (Protected strawberry)
 4 per annum (Grapes)

Section	Profile
<p>1. WILDLIFE</p> <p>Mammals and Birds</p>	<p>KINDRED is not classified "<i>Harmful to game, wild birds and animals</i>". "Do not use treated grain for seed" □</p> <p>No risk management necessary to protect wild mammals and birds. KINDRED is of moderate toxicity to mammals and birds</p>
<p>2. BEES</p>	<p>No risk management necessary. KINDRED is of low risk to honeybees.</p>
<p>3. NON TARGET INSECTS AND OTHER ARTHROPODS</p>	<p>Under worst case laboratory conditions KINDRED is toxic to predatory mites, such as <i>Typhlodromus pyri</i>, but the effect is much less under field conditions with complete recovery by the end of the season. There is a low risk to parasitoids, such as <i>Aphidius rhopalosiphi</i>, predators such as ground beetles (<i>Poecilus cupreus</i>) and lacewings (<i>Chrysoperla carnea</i>).</p>
<p>4. AQUATIC LIFE</p>	<p>KINDRED is classified '<i>Very toxic to aquatic life with long lasting effects</i>'.</p> <p>Whilst KINDRED has an extreme toxicity to fish and <i>Daphnia</i> (water fleas) and high toxicity to algae it may be used safely providing care is taken to prevent spray drift reaching surface waters. The following risk management practices must be carried out:</p> <p><i>"DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 50 metres of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 metres of the top of a ditch which is dry at the time of application. Aim spray away from water"</i>.</p> <p>Broadcast Air-assisted LERAP. Buffer zones may be reduced (see LERAP Guidelines).</p>

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5. SOIL and GROUNDWATER	Meptyldinocap has a low persistence in soil. Meptyldinocap is strongly adsorbed and not mobile in soil. Consequently there is a low risk of groundwater contamination from the use of KINDRED.
Earthworms	KINDRED has a moderate toxicity and low risk to earthworms. No risk management necessary
Soil Micro-organisms	No risk management necessary. At the recommended application rates KINDRED has negligible effects on soil microbial respiration and nitrogen transformations. The risk to soil microbial activity is therefore low.
6. NON-TARGET PLANTS	When used as recommended KINDRED is not expected to have adverse effects on non-target plants.

ALWAYS READ THE LABEL: USE PESTICIDES SAFELY

Care must be taken to minimise the risk of surface water contamination from farmyard and field sources.

For further information about the environmental profile of this product contact:-

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This Environmental Information Sheet was prepared in accordance with CPA Guidance Notes Version 4.

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