

Environmental Information Sheet

EPOK[®] MAPP 11997



An EC formulation containing 400 g/litre of Fluazinam and 193.6 g/L of Metalaxyl-M. A foliar applied fungicide for the control of foliar blight and protection against tuber blight in potatoes.

Max application rate 0.375 litres product/hectare. Max no. of applications 3/crop

Section	Profile
<p>1. WILDLIFE</p> <p>Mammals and Birds</p>	<p>Epok[®] is not classified as <i>'Harmful to game and wildlife'</i></p> <p>No risk management is necessary to protect mammals and birds. Epok[®] is of low toxicity to mammals and birds. The risk to wild mammals and birds feeding on treated areas is low due to the limited amount of residues likely to be consumed.</p>
<p>2. BEES</p>	<p>No risk management is necessary as Epok[®] poses a low risk to honey bees. There is no requirement to avoid application of the product when bees may be foraging on flowering weeds in and around treated areas.</p>
<p>3. NON TARGET INSECTS AND OTHER ARTHROPODS</p>	<p>Risk management advised. Epok[®] poses a low risk to a range of arthropod species commonly found in and around treated fields, including parasitoids, ground and foliage dwelling species but an extended laboratory test demonstrate > 25% effects on the predatory mite "Typhlodromus pyri" at maximum recommended field rate. Precautions should be taken to avoid spray reaching hedgerows, beetle banks, conservation headlands. <i>"Avoid spraying within 6 metres of the field boundary to reduce effects on non-target insects or other arthropods"</i></p>
<p>4. AQUATIC LIFE</p>	<p>Epok[®] is classified as <i>'Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment'</i></p> <p>Epok[®] is highly toxic to aquatic invertebrates such as <i>Daphnia</i>, fish and algae. Fluazinam active ingredient shows rapid degradation in sediments of aquatic systems indicating a low risk. Care must be taken to ensure that surface waters or ditches are not contaminated with the product or used container.</p> <p>Risk management is essential. Epok[®] can be used safely providing care is taken to prevent spray drift reaching surface waters. The following risk management practices must be carried out in order to ensure that there is adequate protection for aquatic species. <i>'Do not allow direct spray from ground based vehicle mounted/drawn sprayers to fall within 5m of surface waters or ditches; direct spray away from water'</i></p> <p>LERAP Category B. Buffer zones may be reduced (see LERAP</p>

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	Guidelines)
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5. SOIL and GROUNDWATER	<p>Fluazinam is very to moderately persistent in soil, depending on the soil type. Fluazinam is absorbed to soil and is therefore of low mobility. Due to its limited mobility in soil there is a negligible risk of groundwater contamination.</p>
Earthworms	<p>Metalaxyl-M has moderate persistence in soil under field conditions. Breakdown is largely due to soil micro-organisms, with considerable mineralisation to carbon dioxide. Although metalaxyl-M is highly mobile in soil, in practice there is a low risk of groundwater contamination following the recommended use of Epok[®].</p> <p>No risk management is necessary. Epok[®] is of moderate toxicity to earthworms. Field studies with Fluazinam active substance have also demonstrated that is unlikely to have any adverse effects on earthworm populations in the long term.</p>
Soil micro-organisms	<p>No risk management is necessary. No effects on soil microbial processes were found and so the risk is considered to be low.</p>
6. NON-TARGET PLANTS	<p>Care should always be taken to minimise the drift of pesticides into conservation headlands, beetle banks and field boundaries such as hedgerows, which may provide an important habitat for wild flowers, non-target insects and other wildlife.</p>

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 3 dated October 2002.

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