

Environmental Information Sheet

INVADER MAFF/MAPP 15223



A water dispersible granule formulation containing 7.5% w/w dimethomorph (a cinnamic acid fungicide) and 66.7% w/w mancozeb (a dithiocarbamate fungicide) for use in potatoes, bulb onions, shallots, garlic and leeks.
Maximum application rate and Maximum total dose: See product label.

Section	Profile
<p>1. WILDLIFE</p> <p>Mammals and Birds</p>	<p>Invader is not classified as '<i>Harmful to game, wild birds and animals</i>'. No risk management is necessary to protect wild mammals and birds. Dimethomorph is of low toxicity to mammalian and bird species. Mancozeb is of low toxicity to mammals and moderate toxicity to birds. The risk to wild mammals grazing on treated areas is low. The risk to birds and mammals due to exposure from other routes e.g. consumption of invertebrates such as insects, is also low.</p>
<p>2. BEES</p>	<p>No risk management necessary. Invader is of low risk to bees.</p>
<p>3. NON TARGET INSECTS AND OTHER ARTHROPODS</p>	<p>No risk management necessary. Invader is of low risk to a range of arthropod species commonly found in and around field vegetable crops, including lacewings and beetles.</p>
<p>4. AQUATIC LIFE</p>	<p>Invader is "<i>VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS</i>".</p> <p>Invader is extremely toxic to aquatic invertebrates, fish and algae. <i>Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.</i></p> <p>Risk management is essential. Invader 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 there is adequate protection for aquatic species. "<i>DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m 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 1m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1m of the top of the bank of a static or flowing water body. Aim spray away from water.</i>"</p> <p>LERAP Category B. Buffer zones may be reduced (see LERAP Guidelines).</p>

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<p>5. SOIL and GROUNDWATER</p> <p>Earthworms</p> <p>Soil Micro-organisms</p>	<p>No risk management necessary. Dimethomorph is moderately persistent in soil and is moderately mobile. Mancozeb is impersistent in soil and of low mobility.</p> <p>Use of Invader as recommended is of low risk to groundwater.</p> <p>No risk management necessary. Dimethomorph is of low toxicity to earthworms. Mancozeb is of moderate toxicity to earthworms. Use of Invader as recommended is of low risk to earthworms.</p> <p>No risk management necessary. The effects on soil microbial processes from use of Invader are minimal and therefore the risk to soil micro-organisms is low.</p>
<p>6. NON-TARGET PLANTS</p>	<p>When used as recommended Invader is not expected to have adverse effects on non-target plants.</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 4.

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