

# Environmental Information Sheet

**Hamlet® MAPP 17370**



An oil dispersion formulation containing 7.5 g/L mesosulfuron-methyl, 2.5 g/L iodosulfuron-methyl-sodium and 50 g/L diflufenican, contact and residual herbicides for use as a post-crop emergence treatment for the control of a range of grass weeds and broad-leaved weeds in winter wheat.

Maximum individual dose: 1.5 L/ha  
 Maximum number of treatments: One per crop  
 Latest time of application: Up to first node detectable (GS31) of the crop

Section	Profile
<b>1. WILDLIFE</b>  <b>Mammals and Birds</b>	<p>Hamlet is not classified as '<i>Harmful to game wild birds and animals.</i>'</p> <p>No risk management is necessary to protect wild mammals and birds.</p> <p>Hamlet is of low toxicity to birds and low toxicity to mammals. The risk to wild mammals and birds grazing on treated areas is low, as is the risk due to exposure from other routes, e.g. consumption of earthworms or other invertebrates such as insects.</p>
<b>2. BEES</b>	<p>No risk management necessary.</p> <p>Hamlet is of low toxicity to bees. There is no requirement to avoid application of Hamlet when bees may be foraging on flowering weeds.</p>
<b>3. NON TARGET INSECTS AND OTHER ARTHROPODS</b>	<p>No risk management necessary.</p> <p>Hamlet poses a low risk to a range of arthropod species commonly found in and around treated fields for example ground beetles, ladybirds, spiders and aphid parasitoids.</p>
<b>4. AQUATIC LIFE</b>	<p>Hamlet is classified as "<i>Very toxic to aquatic life with long lasting effects.</i>"</p> <p>Hamlet is moderately toxic to fish and <i>Daphnia</i>, and extremely toxic to algae and certain aquatic plants. Care must be taken to ensure that surface waters or ditches are not contaminated with the product or the used container.</p> <p>Risk management is essential. Hamlet can be used safely providing care is taken to prevent spray drift reaching surface waters.</p>

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<b>4. AQUATIC LIFE</b>	<p>The following risk management practices must be carried out in order to ensure that there is adequate protection for aquatic species.</p> <p><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 water body, unless a Local Environment 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. Aim spray away from water.”</i></p> <p>LERAP Category B. Buffer zones may be reduced (see LERAP Guidelines).</p>
<b>5. SOIL and GROUNDWATER</b>	<p>Mesosulfuron-methyl is moderately persistent and moderately mobile in soil, iodosulfuron-methyl-sodium is non-persistent. Diflufenican is very persistent and non-mobile. Field investigations have demonstrated that use of Hamlet according to the label presents a low risk to groundwater.</p>
<b>Earthworms</b>	<p>No risk management is necessary. Hamlet is of low toxicity to earthworms.</p>
<b>Soil Micro-organisms</b>	<p>No risk management is necessary Hamlet is of low toxicity to soil micro-organisms.</p>
<b>6. NON-TARGET PLANTS</b>	<p>Hamlet is a broad spectrum, highly active herbicide. Therefore, there is a potential risk to non-target plants adjacent to the treated area.</p> <p><i>Take extreme care to avoid drift onto crops and non-target plants outside the target area.</i></p>

Use plant protection products safely. Always read the label and product information before use. For further product information including warning phrases and symbols refer to [www.cropscience.bayer.co.uk](http://www.cropscience.bayer.co.uk)

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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