

Environmental Information Sheet

Othello® MAPP 16149



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 wide range of broad-leaved weeds and meadow-grasses in winter wheat.

Maximum individual dose: 1.0 L/ha
 Maximum number of treatments: One per crop
 Latest time of application: Up to first node detectable (GS31) of the crop

Section	Profile
1. WILDLIFE Mammals and Birds	<p>Othello 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>Othello 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>
2. BEES	<p>No risk management necessary.</p> <p>The active substances within Othello are of low toxicity to bees. There is no requirement to avoid application of Othello® when bees may be foraging on flowering weeds.</p>
3. NON TARGET INSECTS AND OTHER ARTHROPODS	<p>No risk management necessary.</p> <p>Othello 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>
4. AQUATIC LIFE	<p><i>"Very toxic to aquatic life with long lasting effects."</i> DO NOT CONTAMINATE WATER WITH THE PRODUCT OR ITS CONTAINER</p> <p>Othello 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. Othello can be used safely providing care is taken to prevent spray drift reaching surface waters.</p>

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4. AQUATIC LIFE	<p>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 horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water body, , 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>
5. SOIL and GROUNDWATER Earthworms Soil Micro-organisms	<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 Othello according to the label presents a low risk to groundwater.</p> <p>No risk management is necessary. Othello is of low toxicity to earthworms.</p> <p>No risk management is necessary Othello is of low toxicity to soil micro-organisms.</p>
6. NON-TARGET PLANTS	<p>Othello 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

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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