

Environmental Information Sheet

BANASTAR MAPP 16834



An emulsifiable concentrate containing 100 g/litre dimethenamid-p (chloroacetamide herbicide) and 300 g/litre metazachlor (chloroacetamide herbicide) and 100 g/litre quinmerac (quinolinecarboxylic acid) for use in winter oilseed rape.

Maximum individual dose: 2.5 l/ha

Maximum total dose: 2.5 l/ha (250 + 750 +250 g a.s./ha)

Section	Profile
<p>1. WILDLIFE</p> <p>Mammals and Birds</p>	<p>Banastar is not classified as <i>“Harmful to game, wild birds and animals”</i>.</p> <p>No risk management necessary to protect wild mammals and birds. Metazachlor and quinmerac are of low toxicity to mammal and bird species. Dimethenamid-p is of moderate toxicity to mammals and bird species. 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 invertebrates such as insects.</p>
<p>2. BEES</p>	<p>No risk management is necessary. Banastar is of low risk to bees.</p>
<p>3. NON TARGET INSECTS AND OTHER ARTHROPODS</p>	<p>No risk management is necessary. Banastar is of low risk to a range of arthropod species commonly found in and around treated fields, e.g. ground beetles, aphid parasitoids and predatory mites.</p>
<p>4. AQUATIC LIFE</p>	<p>Banastar is classified as <i>“Very toxic to aquatic life with long lasting effects”</i>.</p> <p>Banastar is of moderate toxicity to fish and aquatic invertebrates, e.g. water flea, and of high toxicity to algae and aquatic plants, e.g. duckweed.</p> <p><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. Banastar 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 of aquatic species.</p> <p><i>“To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.</i></p> <p><i>DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m 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 1 m 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 maybe 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. Metazachlor and Dimethenamid-p are classified as low persistence and moderately mobile in soil. Quinmerac is classified as low persistence and highly mobile in soil. Modelling studies have shown the risk of groundwater contamination from the use of Banastar is low.</p> <p>No risk management necessary. Banastar is of moderate toxicity to earthworms.</p> <p>No risk management necessary. At the recommended application rate, Banastar has no effects on soil microbial respiration or nitrogen turnover. The risk to soil microbial activity is therefore low.</p>
<p>6. NON-TARGET PLANTS</p>	<p><i>"Extreme care must be taken to avoid damage by drift onto plants outside the target area."</i></p> <p>Banastar is an herbicide with activity against a range of broadleaved weeds and may be harmful to some species of wild flowers which are found in the margins of fields. Therefore care should always be taken to minimise drift when applying Banastar close to field boundaries.</p>

ALWAYS READ THE LABEL: USE PESTICIDES SAFELY

Banastar contains metazachlor. Before spraying, read and follow the stewardship information which can be obtained from the address below:

<http://www.voluntaryinitiative.org.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:-

BASF plc, P.O. Box 4, Earl Road, Cheadle Hulme, Cheshire SK8 6QG
 Telephone: 0161 485 6222 Fax: 0161 486 0891

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

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