

Environmental Information Sheet

GEMSTONE MAPP 16298



A suspo-emulsion formulation containing 80 g/l pyraclostrobin (strobilurin fungicide) + 62.5 g/l epoxiconazole (triazole fungicide) for use in winter wheat, winter barley, spring wheat, spring barley, durum wheat, oats, rye and triticale
 Maximum application rate: 2 l/ha (160 + 125 g a.s./ha)
 Maximum Number of treatments: Two (320 + 250 g a.s./ha)

Section	Profile
<p>1. WILDLIFE</p> <p>Mammals and Birds</p>	<p>Gemstone is not classified as '<i>Harmful to game, wild birds and animals</i>'.</p> <p>No risk management is necessary to protect mammals and birds. Pyraclostrobin and epoxiconazole, the two active substances in Gemstone, are of low toxicity to mammals and birds. 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>
<p>2. BEES</p>	<p>No risk management necessary. Gemstone is of low risk to bees.</p>
<p>3. NON TARGET INSECTS AND OTHER ARTHROPODS</p>	<p>No risk management necessary.</p> <p>Gemstone is of low risk to a range of arthropod species commonly found in and around treated cereal fields, including ground beetles and aphid parasitoids.</p>
<p>4. AQUATIC LIFE</p>	<p>Gemstone is classified as "<i>Very toxic to aquatic life with long lasting effects.</i>"</p> <p>Gemstone is of extreme toxicity to fish and aquatic invertebrates such as water flea and of high toxicity to algae. "<i>Do not contaminate surface waters or ditches with chemical or used container.</i>"</p> <p>Risk management is essential. Gemstone 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>"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 Environmental 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>Epoxiconazole is very persistent in soil and is of low mobility. Pyraclostrobin is moderately persistent in soil and is strongly adsorbed to soil and is therefore not mobile.</p> <p>No risk management necessary. Use of Gemstone as recommended presents low risk to groundwater.</p> <p>No risk management necessary. Pyraclostrobin is of moderate toxicity to earthworms. Epoxiconazole is of moderate toxicity to earthworms. Use of Gemstone as recommended presents low risk to earthworms.</p> <p>No risk management necessary. No effects on soil microbial processes or on straw decomposition were found and so the risk is considered low.</p>
<p>6. NON-TARGET PLANTS</p>	<p>Gemstone may cause damage to some broad-leaved plant species.</p> <p><i>“Extreme care must be taken to avoid drift onto nearby crops.”</i></p> <p>Care should also be taken to minimise the drift of Gemstone into conservation headlands, beetle banks and field boundaries such as hedgerows which may provide an important habitat for wild flowers.</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:-
 BASF plc, P O Box 4, Earl Road, Cheadle Hulme, Cheadle, 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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