

Environmental Information Sheet

SIGNUM MAFF/MAPP 11450



A WDG formulation containing 26.7% w/w boscalid (SDHI (carboxamide) group of fungicides) and 6.7% w/w pyraclostrobin (strobilurine fungicide) for use in blackcurrant (outdoor), broccoli/calabrese, brussels sprout, cabbage, carrot, cauliflower, combining pea, field bean, lettuce (protected, outdoor), strawberry (protected, outdoor) and vining pea

Max individual dose: 1.5 kg/ha

Max total dose: 1.0 kg/ha to 3.6 kg/ha

Section	Profile
<p>1. WILDLIFE</p> <p>Mammals and Birds</p>	<p>Signum 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. Boscalid and pyraclostrobin, the active substances in Signum, are of low toxicity to mammalian 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 earthworms or other invertebrates such as insects.</p>
<p>2. BEES</p>	<p>No risk management is necessary. Signum is of low risk to bees.</p>
<p>3. NON TARGET INSECTS AND OTHER ARTHROPODS</p>	<p>No risk management is necessary. Signum poses a low risk to a range of arthropod species commonly found in and around treated fields, e.g. ground beetles, predatory mites, lacewings and aphid parasitoids.</p>
<p>4. AQUATIC LIFE</p>	<p>Signum is <i>“Very Toxic To Aquatic Organisms, May Cause Long Term Adverse Effects In The Aquatic Environment.”</i></p> <p>Signum is extremely toxic to fish and aquatic invertebrates and highly toxic to algae.</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.”</i></p> <p>Risk management is essential. Signum 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>No risk management necessary. Boscalid is very persistent in soil with low mobility. Pyraclostrobin is moderately persistent in soil. Pyraclostrobin is strongly adsorbed to soil and is therefore not mobile. It has been shown to remain in the top 10cm of soil.</p> <p>Use of Signum according to the label presents a low risk to groundwater.</p> <p>No risk management necessary. Boscalid is of low toxicity to earthworms. Pyraclostrobin is of moderate toxicity to earthworms. Field studies have also demonstrated that boscalid and pyraclostrobin the active ingredients in Signum are unlikely to have any adverse effect on earthworm populations in the long-term.</p> <p>No risk management necessary. At the recommended application rate, Signum has no effects on soil microbial respiration and nitrogen turnover. The risk to soil microbial activity is therefore low.</p>
<p>6. NON-TARGET PLANTS</p>	<p>When used as recommended Signum 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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